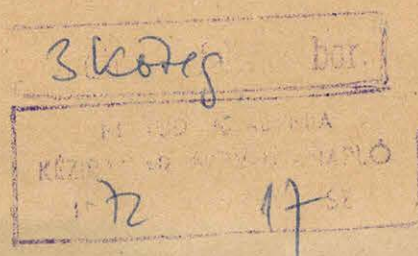


Ms 5106/12-14. Eötvös L. neves jegyzetei



1895. nov. 7.

1. J. 10. 305,0

Ms 5106/12

500

nov. 6. este 20h. 40 454,1
reg. 8h. 40 452,3

reg. 9h. 35m. 10 534,9
37 378,1

530,6

382,2

526,3

586,2

522,5

340,3

518,8

394,1

515,2

397,6

397,6

$T = 26,2$
 $26,1$

455,6

455,7

J. Egyenlet
0,971 455,5
971 455,5
971 455,5

$T = 26,15$

180-ra red. egy.

455,7

t.r. 455,7 all. 500

32 32
39m 58

Kalculat = $163,5 + 17,3 = 180,8$

2. J. 10. 335 all. 700

10h. 20 34 155,9

21 2 252,1

159,0

249,7

161,7

246,8

164,7

243,7

167,0

247,4

170,1

238,1

J. Egy.
0,970 204,8
958 205,0
965 205,1

$T = 27,45$

R. egy. { all. 200,2
m. 204,8

t.r. { all. 699,4
m. 207,5

t.r. 8,1 all. 500

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25m. 9 170,1
36 238,1

$T = 27,5$
27,4

205,0

Kalculat = $162,5 + 17,3 = 179,8$

3. Ind. 5 av. 750

10h. 42m 3 133,0
34 54,9
130,2

57,8
128,0
59,4
125,3

D Eg.
0,962 92,9
974 93,1
974 93,1

$T = 31,95$

180 S.R. { av. 741,5
m. 106,9

t.r. { av. 740,2
m. 113,0

47m 22
54

62,0 160,7
122,7 158,4
64,3 156,9
121,2 155,4
65,8

$T = 31,9$
32,0

t.r. - 127,2 av. 500

Probabil = 169,0 + 17,3 = 186,3

.4. Ind. 35 av. 500

11h. 8m 26
9 42

480,9
608,8
484,5
604,4
492,5 - 2
604,0
491,5
598,9
496,3
594,8
500,3
591,7
504,4
588,3
508,2
584,0
511,5 169,5
587,0 166,7
514,0 163,7

D Eg.
0,960 547,0
955 546,9
955 546,9

$T = 37,60$

180 S.R. 547,1

t.r. 547,1 av. 500

14m 0
39

578,0 160,8
517,2

20m

16
55

Probabil = 162,0 + 17,3 = 179,3

5. Ind. 65 ans 250

38 54
39 25

808,0
933,8
872,5
929,7
876,8
925,3
820,7
921,9
874,4
918,8, 91,3
827,5, 87,5
915,0, 84,0
831,0, 81,2
912,2

J
0,958
960
967

Eg.
872,2
872,1
872,3

$$T = 31,05$$

44

5

180 S.R. { ans 257,2
m. 861,7

45

7

tr. ans 258,7
m. 856,9

tr. 1098,2
ans 500

$$Pr. total = 168,0 + 17,3 = 185,3$$

6. Ind. 95 ans 300

11h. 57m. 1
28

787,1
634,0
782,1
638,4
777,8
642,5
773,4, 1127,1
646,3, 123,7
769,7, 119,7
650,0, 115,8
765,8, 112,3
653,5

J
0,970
967
970

Eg.
708,9
708,8
708,8

$$T = 27,10$$

180 S.R. { ans 307,9
m. 706,7

32

12h. 1m. 59

tr. ans 302,6
m. 705,8

tr. 902,2 ans 500

$$Pr. total = 164,5 + 17,3 = 181,8$$

Ind. 125 ali 500

12h. 20m. 37 520,3

21m. 3 380,0

516,3

387,7

512,7

387,8

509,0

391,4

505,8

394,7

502,8

397,7

J
0,971
973
972

Eg.
449,4
449,5
449,5

T = 26,25

180.5-r. { ali 500
m. 451,1

t.r. ali 500
m. 457,1

24m. 59

25m. 26

Practical = 168,5 + 17,3 = 185,8

Ind. 155 ali 700

12h. 38m. 29 153,1

57 276,7

157,1

273,1

160,7

269,8

163,9

266,2

166,9

263,5

169,8

260,8

J
0,973
970
971

Eg.
215,9
215,9
216,0

T = 27,50

180.5R { ali 700,2
m. 215,7

t.r. ali 699,4
m. 218,1

t.r. ali 500
m. 18,7

43m. 4

32

Practical = 162,5 + 17,3 = 179,8

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9. Ind. 185 allw 750

12

12h.	57m	34	183,6
	52m	7	108,7
			181,2
			111,5
			178,8
			113,4
			176,7
			115,6
			174,6
			118,1
			172,2
			120,0

S En.
 0,957 145,7
 958 145,7
 965 145,6
 $T = 31,90$

180 S.R. { allw 754,5
m. 139,2

$t = 13,0$

t.r. { allw 752,9
m. 143,9

t.r. - 1090 allw 500

Matched 159,5 + 17,3 = 176,8

3h.	9m	32	141,0
			141,1
			142,0
			141,1

10. Ind. 215 allw 500

3h.	41m	2	636,0
		39	516,1
			630,5
			520,1
			625,7
			524,2
			621,0
			524,8
			617,8
			532,1
			613,9
			535,9

S En.
 0,963 574,1
 955 574,1
 954 574,0
 $T = 37,70$

180 S.R. 573,7

t.r. 573,6 allw 500

Matched = 163,5 + 17,3 = 180,8

11. Ind. 245 avo' 250

4h.	5m.	46	797,8
	6m.	16	977,0
			807,2
			971,5
			810,1
			966,4
			875,5
			961,3
			821,0
			956,6
			826,0
			952,2

$\frac{J}{0,966}$
 $\frac{J}{963}$
 $\frac{J}{966}$

$\frac{E_{gr.}}{889,9.}$
 $\frac{E_{gr.}}{890,1}$
 $\frac{E_{gr.}}{890,2}$

$T = 30,85$

$1805K.R. \left\{ \begin{array}{l} \text{avo. } 257,8 \\ \text{m. } 887,4 \end{array} \right.$

$\pm r. \text{ avo. } 253,3$
 $\text{m. } 881,5$
 $\pm r. 1128,2 \text{ avo. } 500$

$\text{Skat. ind.} = 164,0 + 17,3 = 181,3$

12. Ind. 275 avo' 300

29	58	787,0
36	25	675,0
		778,0
		677,9
		775,0
		680,9
		772,2
		683,9
		769,8
		686,4
39m.	28	767,1
39m.	55	689,0

$\frac{J}{0,971}$
 $\frac{J}{968}$
 $\frac{J}{968}$

$\frac{E_{gr.}}{720,5}$
 $\frac{E_{gr.}}{727,5}$
 $\frac{E_{gr.}}{727,4}$
 $\frac{E_{gr.}}{727,7}$

$T = 27,00$

$\text{Skat. ind.} = 166,0 + 17,8 = 183,8$

$1805K.R. \left\{ \begin{array}{l} \text{avo. } 304,1 \\ \text{m. } 722,7 \end{array} \right.$

$\pm r. \text{ avo. } 300,9$
 $\text{m. } 721,5$

$\pm r. 914,6 \text{ avo. } 500$
 $916,6$

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Ind. 305 Auto' 500,2

wh.

48m.

5.
31

368,5

540,1

373,3

575,3

378,2

530,6

382,8

526,2

386,8

522,3

390,8

578,3

139,4

135,5

131,5

127,5

$T = 26,1$

$= 26,2$

455,6

J
0,972
971
970

Eg.
455,5
455,5
455,6

180 S.R. 453,9

52m.

26

53

tr. auto 500

m. 453,7

Skal level $156,0 + 17,3 = 173,3$

$C \sin 2\theta = \tau \alpha$

$\frac{\tau}{C} = 0,75801 \times 10^4$

$\frac{\tau}{C} = 5,7287$

373:12=31,08
372:12=31,00

340,3 128,5 1089 9870 971 2947 8142 65,2 455,5
518,8 124,7 0959 9870 971 2947 8012 63,3 455,5
394,1 121,1 0831 9872 971 2947 7884 61,4 455,5
515,2 117,6 0704 9873 971 2947
397,6

8848 9868 970 2945 5903 38,9
8716 9815 958 2918 5798 38,0
8531 9845 965 2934 5597 36,3
8376

7832 9832 962 2927 4905 30,9
7664 9887 974 2953 4711 29,6
7551 9884 974 2953 4598 28,8
7435

8420 9821 960 2923 5497 35,5
8241 9800 955 2911 5330 34,1
8041 9798 955 2911 5130 32,6
7839

9605 9815 958 2918 6687 46,6
9420 9823 960 2923 6497 44,6
9243 9853 967 2938 6305 42,7
9096

1041
0913 9868 970 2945 6923 7968 62,6
0787 9856 967 2938 6718 7843 60,9
0637 9867 970 2945 6922 7692 58,8
0504

0584 9873 971 2947 7637 58,0
0457 9881 973 2951 7506 56,3
0338 9878 972 2949 7389 54,8
0216

9969 9881 973 2951 7018 50,3
9850 9867 970 2945 6905 49,0
9717 9873 971 2947 6770 47,5
9590

7709 9811 957 2916 4793 30,1(2)
7520 9812 958 2918 4602 28,9
7332 9845 965 2934 4398 27,5
7177

9494 9836 963 2929 6565 45,3
9330 9798 955 2911 6419 43,8
9128 9793 954 2909 6219 41,9
8921

1471 9852 966 2936 8535 71,4
1323 9836 963 2929 8394 69,1
1154 9852 966 2936 8223 66,4
1011

9340 9872 971 2947 6393 43,6
9212 9857 968 2940 6272 42,4
9069 9858 968 2940 6129 41,0
8927

1443 9876 972 2949 8494 70,7
1319 9870 971 2947 8372 68,7
1189 9866 970 2945 8244 66,7
1055

2572 2572 200 27021
2553 2553 900 25527
0019 9981 98506
6484 6484 39794
6465 408,9 38300
44,3 60949
59455 393,1

25358 26788
25527 25527
00169 98739
67117 39794
67286 38533 242,8
47,1 372,2 57078
55817 361,7

294,9:900=0,3

44x8
592:1800=0,3

25959
25527
99568
30103
29671 198,1
31973
31541 206,7

26905
25527
98622
70329
68951 78,9
354,4

24748
25527
00779
39794
40573 254,5
54949 360,8
55728 390,2

25840
25527
99687
39794
39481 248,2
59129
84656
58816 387,4

26435
25527
99092
30203
29195 195,9
35679 222,7
34771

23880
25527
44407
01647
64738
66385 46,1

Ind. 215

alt' 498,5

Vinskata

sh. 37m. 32 609,0

95,0

586,8

116,1

567,2

135,0

40m. 44 579,6

346,5

$T = 36,87$

Skatlovod = 160 +

Ind. 35

alt' 500

6h. 13m. 52 668,2

64,3

641,2

91,2

617,6

115,6

17m. 43 595,9

360,8

$T = 38,5$

Skatlovod = 167,5 +

Index 125

Majnesek a meridianban.

6h. 30m. 23 199,2

695,8

681,7

228,1

668,8

32 59 241,2

$T = 26,0$

457,7

Majnesek a leve

7h. 15m. 1 192,3

525,7

203,0

516,6

212,8

507,5

17- 38 221,9

362,4

$T = 26,2$

Skatlovod = 155 +

Ind. 305 ml. 500

7h. 33m. 22 239,7

471,2

247,0

465,3

253,3

459,2

259,7

357,8

T = 26,3

7h. 2
1h. 0,3

35m. 0

Skatához 163,5+

Fenn deszáron

10h. 40 454,1

124,7.	0959	9883	973	2952	8007	63,2	455,6
121,1	0842	9883	973	2943	7899	61,6	455,7
117,6	0704	9862	969				

4,1

7,6

117

395,85

515,2

9110

455,5

18,8

15,2

340

517,0

394,1

9111

455,6

2621

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KÖNYVTÁRA

167,0

70,1

371

168,55

241,4

4100

205,0

38,1

41,4

795

239,75

170,1

4098

204,9

2

4,3

5,8

101

65,05

121,2

1862

93,1

21,2

22,7

439

21,95

64,3

862

$$C \sin 2\delta = \tau \alpha_1$$

$$C \sin 2(\delta + 30^\circ - \frac{440,0}{3600}) = \tau \alpha_2$$

$$C \sin 2(\delta + 60^\circ - \frac{571,7}{3600}) = \tau \alpha_3$$

$$C \sin 2\delta = \tau \alpha_1$$

$$C \sin(2\delta + 45,994) = \tau \alpha_2$$

$$C \sin(2\delta + 101,802) = \tau \alpha_3$$

$$C [\sin 2\delta - \sin(2\delta + 45,994)] = \tau (\alpha_1 - \alpha_2) = \frac{440,0}{3600}$$

$$C [\sin 2\delta - \sin 2\delta \cos 45,994 - \cos 2\delta \sin 45,994] = \tau \frac{440,0}{3600}$$

$$C [\sin 2\delta - \sin 2\delta \cos 101,802 - \cos 2\delta \sin 101,802] = \tau \frac{571,7}{3600}$$

$$\frac{\sin 2\delta - \sin 2\delta (0,69473) - \cos 2\delta (0,85689-1)}{\sin 2\delta + \sin 2\delta (0,37140) - \cos 2\delta (0,996776)} = \frac{2,64345}{2,75717} = 0,76962$$

$$\frac{0,30527 \sin 2\delta - 0,71927 \cos 2\delta}{1,37140 \sin 2\delta - 0,92845 \cos 2\delta} = 0,76962$$

$$0,30527 \sin 2\delta - 0,71927 \cos 2\delta = 1,37140 \times 0,76962 \sin 2\delta - 0,92845 \cos 2\delta$$

$$1,3714 = 0,13716$$

$$0,76962 = 0,88628-1$$

$$1,05546$$

$$0,76962 = 0,88628$$

$$0,92845 = 0,996776$$

$$72824-2$$

$$2\delta = -0,360$$

$$\delta = -0,180$$

$$\alpha_1 - \alpha = -\frac{107,6}{3600}$$

$$107,6 = 2,03187$$

$$3,55630$$

$$0,47551-2$$

$$0,029889$$

$$0,30527 \sin(-0,360) - \cos(-0,360) 0,71927 = \frac{\tau}{C} \frac{440}{3600}$$

$$0,48469-1$$

$$79818-3$$

$$0,28287-3$$

$$0,00192$$

$$0,71925$$

$$0,72117 = 0,85804-1$$

$$0,8715-1$$

$$\frac{\tau}{C} = 0,77089$$

$$\alpha_1 - \alpha = 4^\circ \frac{8^\circ}{7,640}$$

$$\sin(-0,360) - \sin(-0,360 + 290^\circ - 2(\alpha_1 - \alpha)) = \frac{\tau}{C} (\alpha_1 - \alpha)$$

$$-0,00628 - \sin[0,360^\circ + 2(\alpha_1 - \alpha)] = \frac{\tau}{C} (\alpha_1 - \alpha_2)$$

$$-0,00628 - \sin[0,360^\circ - 3,426] = [0,77089 + 0,47551-2]$$

$$-3,066$$

$$0,05349$$

$$0,0628$$

$$0,05977$$

$$1440 = 2,64345$$

$$13600 = 3,55630$$

$$0,08715-1$$

$$0,029889 = 1^\circ$$

$$0,029889 = 1^\circ 42' 45''$$

$$17453 = 1,713$$

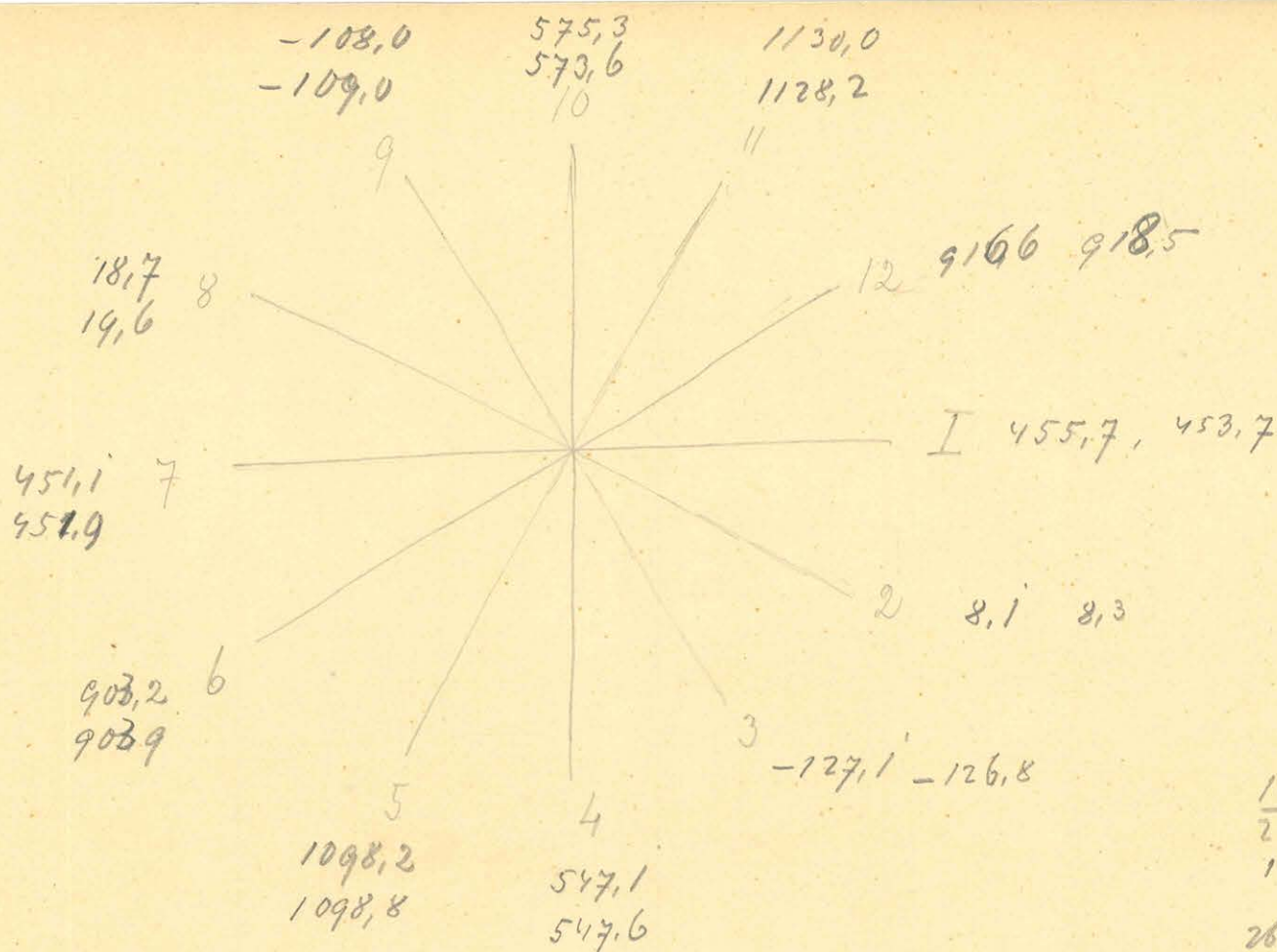
$$0,12436$$

$$0,12217$$

$$0,00219$$

MASTAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$$\frac{13295}{628} = 13923$$



55,7
1,9
7,6
53,8

8,1
19,6
27,7
13,8

26,8
9,0
35,8
17,9

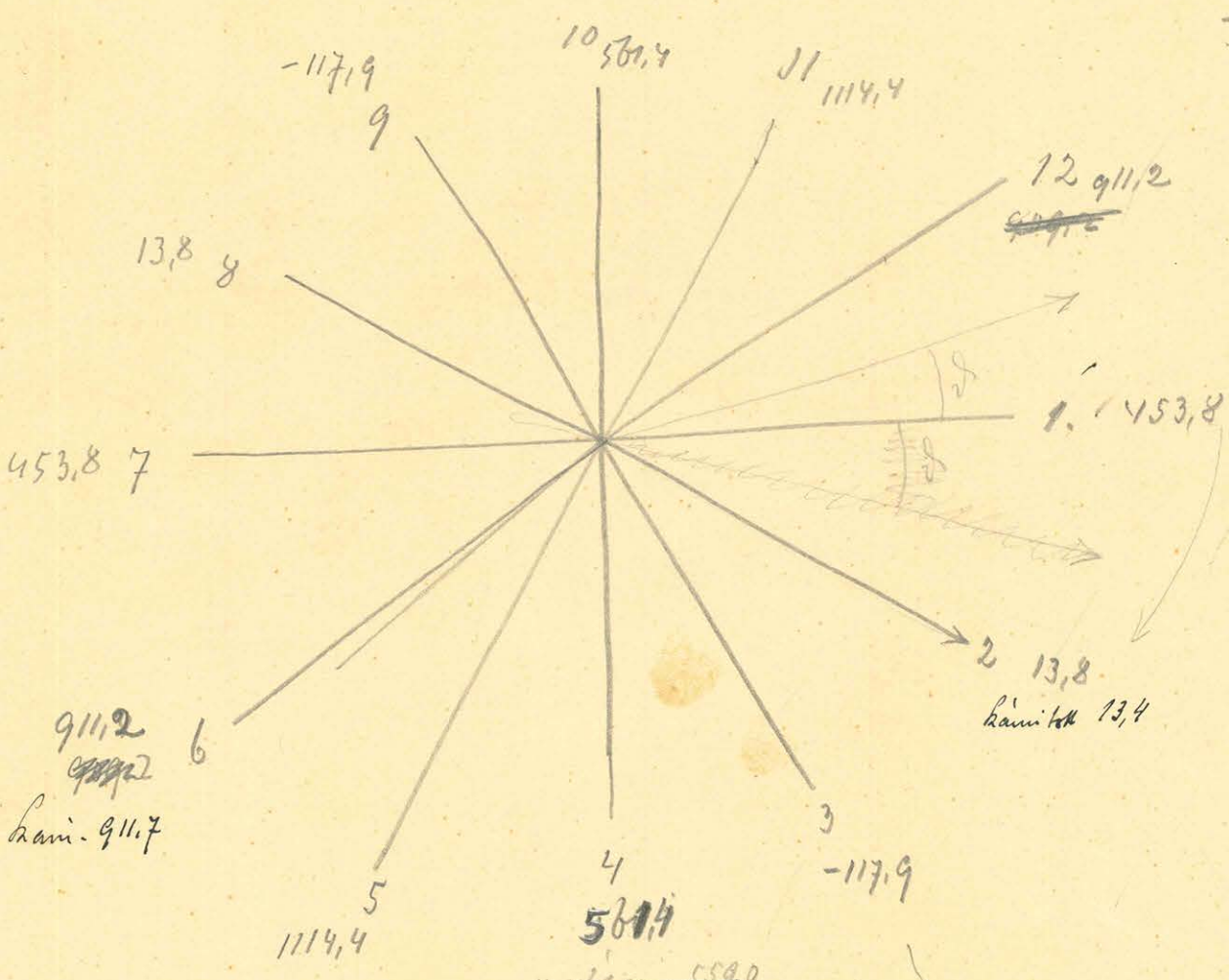
73,6
43,6
121,2
60,1

75,3
47,6
22,9
61,5

130,0
98,8
228,8
114,4

16,5
08,9
184
9,2

448
3600 = 0,1222



561,4
561,9

$C \sin 2\alpha = \tau \alpha$
 $C \sin 2\alpha + 30 - 14^\circ$

453,8
561,4
1015,2
507,6

13,8
1114,4
1128,2
564,1

-117,9
909,2
891,3
445,2

03,9
18,5
22,4
11,2

6. oldal.

$$\sin 3,219 - \sin (3,219 + 300^\circ - 2(\alpha_1 - \alpha_2)) = C(\alpha_1 - \alpha_2)$$

$$\sin 3,219 + \cos (33,219 - 2(\alpha_1 - \alpha_2)) = C(\alpha_1 - \alpha_2)$$

$$\alpha_1 - \alpha_2 = \frac{-4554}{3600} = 1,26539$$

$$\alpha_1 - \alpha_2 = \frac{122173}{1004323} = 7,248^\circ$$

$$\alpha_1 - \alpha_2 = 0,126500 = 7,248^\circ$$

$$14,486$$

$$33,219$$

$$47,715 = 0,82790 - 1$$

$$0,67282$$

$$5615$$

$$0,72897$$

$$72460$$

$$+ 0,00437$$

$$\alpha_1 - \alpha_2 = 7,2 = 0,122173$$

$$5236$$

$$20,127409 = 0,10520 - 1$$

$$75801$$

$$33,219$$

$$14,0$$

$$47,819 = 0,82703$$

$$300,16$$

$$284$$

$$220:657 = 0,3$$

$$52,3$$

$$150$$

$$0,67147$$

$$5615$$

$$0,72762$$

$$72982$$

$$- 0,00220$$

$$\alpha_1 - \alpha_2 = 7,28 = 0,122173$$

$$3491$$

$$1164$$

$$233$$

$$20,127061 = 0,10401 - 1$$

$$75801$$

$$0,86202$$

$$0,72782$$

$$14,56$$

$$33,219$$

$$47,779$$

$$0,82737 - 1$$

$$0,67200$$

$$5236$$

$$0,72936$$

$$72782$$

$$+ 0,00154$$

$$154:374 = 0,41 \times 2$$

$$1496$$

$$440$$

$$0,8$$

$$0,72$$

$$7,288 = 0,127061$$

$$141$$

$$20,127202 = 0,10449$$

$$3,55830$$

$$2,66079$$

$$469,6$$

$$457,9$$

$$453,8$$

$$401,7$$

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$$\frac{\sin 2\delta - 0,69473 \sin 2\delta - 0,71927 \cos 2\delta}{\sin 2\delta + 0,20453 \sin 2\delta - [99072-1] \cos 2\delta} = [0,88628-1]$$

$$0,30527 \sin 2\delta - 0,71927 \cos 2\delta = 1,20453 \times [0,88628-1] - [99072-1] [0,88628-1]$$

$$\begin{array}{r} 0,92704 \\ 0,62177 \sin 2\delta \end{array} \quad \begin{array}{r} 0,08082 \\ 88628-1 \\ 0,96710-1 \end{array} \quad \begin{array}{r} 99072-1 \\ 88628-1 \\ 87700-1 \end{array} \quad \begin{array}{r} -0,75335 \\ 0,71927 \\ 0,03408 \end{array}$$

$$0,62177 \sin 2\delta - 0,03408 \cos 2\delta = 0$$

$$\lg 2\delta = \frac{0,03408}{0,62177} = \begin{array}{l} 0,53250-2 \\ 0,79363-1 \\ 0,73887-2 \end{array}$$

$$2\delta = 3,137$$

$$\delta = 1,5685$$

$$0,30527 \sin 2\delta - 0,7$$

$$0,30527 \sin 3,137 - \cos 3,137 \times 0,71927 = \frac{\pi}{c} \frac{44}{360}$$

$$\begin{array}{r} 0,30527 = 0,48469-1 \\ \sin 3,137 = 0,73818-2 \\ 0,22287-2 \end{array} \quad \begin{array}{r} 0,71927 = 85689-1 \\ 99935 \\ 85624-1 \\ 0,71819 \\ 0,01671 \\ 0,70148 = 0,86602-1 \\ 0,08715-1 \\ 0,75887 \end{array}$$

$$\sin 6,563 = 0,5803$$

$$\alpha_1 - \alpha = 1,713$$

$$\sin 3,137 - \sin (3,137 + 180^\circ + 3,426) = \frac{0,75887}{47551-2} = \frac{0,23438-1}{0,23438-1}$$

$$\begin{array}{r} 0,05472 \\ 1143 \\ 0,0 + 0,1690 - 1715 \end{array}$$

$$\alpha_1 - \alpha = 5^\circ$$

$$\sin 0,05472 + \sin 3,137 = \frac{0,75887}{0,4084-2} = \frac{0,69971-1}{0,69971-1}$$

$$\alpha_1 - \alpha = 1,5^\circ$$

$$\begin{array}{r} 0,05472 + \sin 6,137 = \frac{0,75887}{41797-2} \\ 10690 \quad 0,02900 \quad 0,17684-1 \\ 0,16162 \quad 0,15026 \end{array}$$

$$\alpha_1 - \alpha = 1,6 = \frac{0,017453}{10472} = \frac{0,017453}{10472}$$

$$\begin{array}{r} 0,05472 + \sin 6,337 = \frac{0,75887}{444600-2} \\ 0,11038 \quad 0,02900 \quad 0,17684-1 \\ 0,16510 \quad 1603 + 0,0048 \end{array}$$

$$\alpha_1 - \alpha = 1,7 = \frac{0,017453}{12217} = \frac{0,017453}{12217}$$

$$\begin{array}{r} 0,05472 + \sin 6,537 = \frac{0,75887}{47551-2} \\ 0,11385 \quad 0,02900 \quad 0,17684-1 \\ 0,16857 \quad 1603 + 0,0048 \end{array}$$

$$\sin 6,537 = 0,5631-1$$

$$\begin{array}{r} 0,11385 \\ 0,05472 \\ 0,16857 \\ 65 \\ 17 = 0,26 \end{array} \quad \begin{array}{r} 36 \times 4 \\ 144 \\ 2 \times 24 \\ 48 \\ 144 \end{array} \quad \begin{array}{r} 0,17029 \\ -0,00172 \end{array}$$

$$\frac{17}{85} = 0,2$$

$$\alpha = 1,67 = 0,017453$$

$$\alpha_1 - \alpha = 0,029147 = 0,46460-2$$

$$\sin 3,137 = 0,75887$$

$$\sin 3,340 = 0,5233$$

$$\sin 6,477 = 0,5233$$

$$\alpha_1 - \alpha = 1,67 = 0,017453$$

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$$\alpha_1 - \alpha = 1,67 = 0,017453$$

$$\frac{\partial c_1}{\partial z} = -2\mu(\alpha_1 + \beta_1) \quad c_1 = -2\mu z \alpha_1(y) - 2\mu B_1(z) + f_1(y)$$

$$\frac{\partial c_2}{\partial z} = -2\mu(\alpha_2 + \beta_2) \quad c_2 = -2\mu z \alpha_2(y) - 2\mu B_2(z) + f_2(y)$$

$$\frac{\partial b_1}{\partial y} = \frac{\partial c_1}{\partial z} = -2\mu(\alpha_1 + \beta_1) \quad b_1 = -2\mu A_1(y) - 2\mu y \beta_1(z) + g_1(z)$$

$$b_2 = -2\mu A_2(y) - 2\mu y \beta_2(z) + g_2(z)$$

$$\frac{\partial b_1}{\partial z} + \frac{\partial c_1}{\partial y} = -2\mu y \frac{\alpha \beta_1}{dz} + \left(\frac{dg_1}{dz} \right) - 2\mu z \frac{\alpha \alpha_1}{dy} + \left(\frac{dh_1}{dy} \right) = 0$$

$$\frac{d\beta_1}{dz} = 2m_1 z \quad \frac{d\alpha_1}{dy} = -2m_1 y \quad \left| \begin{array}{l} \frac{dg_1}{dz} = g_1 \quad \frac{dh_1}{dy} = -g_1 \end{array} \right|$$

$$\frac{d\beta_1}{dz} = 2m_1 z + m_1'' \quad \frac{d\alpha_1}{dy} = -2m_1 y + m_1'$$

$$\frac{dg_1}{dz} = 2\mu m_1' z + g_1 \quad \frac{dh_1}{dy} = 2\mu m_1'' y - g_1$$

$$2 \frac{\partial^2 u}{\partial x^2} = 4(m_1(y^2 - z^2) + m_1' y + m_1'' z + k_1 + l_1)$$

$$\frac{\partial^2 u}{\partial y^2} = -2m_1 y^2 - 2m_1' x + \frac{\partial^2 \varphi}{\partial y^2}$$

$$\frac{\partial^2 u}{\partial z^2} = 2m_1 x^2 + 2m_1' x + \frac{\partial^2 \varphi}{\partial z^2}$$

$$4[m_1(y^2 - z^2) + m_1' y + m_1'' z + k_1 + l_1] + \frac{\partial^2 \varphi}{\partial y^2} + \frac{\partial^2 \varphi}{\partial z^2} = 0$$

$$\frac{\partial}{\partial x} \frac{\partial w}{\partial x} = \frac{\partial^2 c_3}{\partial x^2}$$

$$\frac{\partial}{\partial x} \left(\frac{\partial u}{\partial z} \right) = \frac{\partial}{\partial x} \left[\frac{\partial \beta_1}{\partial z} x^2 + \frac{\partial \beta_2}{\partial z} x + \frac{\partial \varphi}{\partial z} \right] = 2x \frac{\partial \beta_1}{\partial z} + \frac{\partial \beta_2}{\partial z} = 2x(2m_1 z + m_1'') + 2m_2 z + m_2'$$

$$\frac{\partial^2 c_3}{\partial x^2} + 4m_1 x z + 2x m_1'' + 2m_2 z + m_2' = 0$$

$$\frac{\partial^2 c_3}{\partial x^2} + 2m_1'' x + m_1'' = 0 \quad m_1 = 0 \quad m_2 = 0$$

$$\frac{\partial^2 u}{\partial y \partial x} = 2x \frac{\partial \alpha_1}{\partial y} + \frac{\partial \alpha_2}{\partial y} = 2x(-2m_1 y + m_1') - 2m_2 y + m_2'$$

$$\frac{\partial^2 b_3}{\partial x^2} + 2m_1' x + m_2' = 0 \quad m_1 = 0 \quad m_2 = 0$$

$$c_3 = -\frac{m_1''}{3} x^3 - \frac{m_2''}{2} x^2 + n_3 x + n_4$$

$$b_3 = -\frac{m_1'}{3} x^3 - \frac{m_2'}{2} x^2 + n_1 x + n_2$$

$$u = [m_1' y + m_1'' z + k_1 + l_1] x^2 + [m_2' y + m_2'' z + k_2 + l_2] x + \varphi(y, z)$$

$$v = \left\{ -2\mu \left[\frac{m_1'}{2} y^2 + k_1 y + k_1' \right] - 2\mu y (m_1'' z + l_1) + \mu m_1' z^2 + g_1 z + g_1' \right\} x - \frac{m_1'}{3} x^3 - \frac{m_2'}{2} x^2 + n_1 x + n_2$$

$$w = \left\{ -2\mu \left[\frac{m_2'}{2} y^2 + k_2 y + k_2' \right] + y (m_2'' z + l_2) - \frac{m_2'}{2} z^2 + g_2 z + g_2' \right\} \varphi(x, y)$$

$$\frac{\partial \varphi}{\partial x} = g^{m-1} \left[m y \frac{\partial g}{\partial x} + g \frac{\partial y}{\partial x} \right]$$

$$\frac{\partial \varphi}{\partial x} = (m-1) g^{m-2} \frac{\partial g}{\partial x} \left[m y \frac{\partial g}{\partial x} + g \frac{\partial y}{\partial x} \right] +$$

$$-2\mu y (2m_1 z + m_1'') + 2\mu m_1' z + g_1$$

$$-2\mu z (-2m_1 y + m_1') + 2\mu m_1'' y - g_1$$

$$\beta_1 = m_1 z^2 + m_1'' z + l_1 \quad \beta_2 = m_2 z^2 + m_2'' z + l_2$$

$$\alpha_1 = -m_1 y^2 + m_1' y + k_1 \quad \alpha_2 = -m_2 y^2 + m_2' y + k_2$$

$$g_1 = \mu m_1' z^2 + g_1 z + g_1' \quad h_1 = \mu m_1'' y^2 - g_1 y + g_1''$$

$$g_2 = \mu m_2' z^2 + g_2 z + g_2' \quad h_2 = \mu m_2'' y^2 - g_2 y + g_2''$$

$$B_1 = \frac{m_1'}{3} z^3 + \frac{m_1''}{2} z^2 + l_1 z + l_1' \quad A_1 = -\frac{m_1'}{3} y^3 + \frac{m_1''}{2} y^2 + k_1 y + k_1'$$

$$B_2 = \frac{m_2'}{2} z^2 + l_2 z + l_2' \quad A_2 = +\frac{m_2'}{2} y^2 + k_2 y + k_2'$$

$$B_2 = \frac{m_2''}{2} z^2 + l_2 z + l_2' \quad A_2 = \frac{m_2'}{2} y^2 + k_2 y + k_2'$$

UDJAN-TOVA AXADÉMA
KONYVTARA

$$\frac{\partial \varphi}{\partial x} + \frac{\partial \varphi}{\partial y} = 0 \rightarrow g(x, y) = 0$$

$$\frac{\partial \varphi}{\partial y} = 0 \text{ ha}$$

$$\varphi[g(x, y), x]$$

$$g(x, y) = u$$

$$\sin 2\delta = c\alpha_1 \quad \frac{571.7}{3600} = 0.099$$

$$\sin (2\delta + 60^\circ - \frac{571.7}{3600}) = c\alpha_2$$

$$\sin (2\delta + 120^\circ + \frac{660.6}{3600}) = c\alpha_3$$

$$\sin (2\delta + 101.802) = c\alpha_2$$

$$\sin (2\delta + 261.028) = c\alpha_3$$

$$-\sin (2\delta + 81.028) = c\alpha_3$$

$$\sin 2\delta - \sin 2\delta \cos 101.802 - \cos 2\delta \sin 101.802 = \frac{-571.7}{660.6}$$

$$\sin 2\delta + \sin 2\delta \cos 81.028 + \cos 2\delta \sin 81.028$$

$$1.20453 \sin 2\delta - [0.99072-1] \cos 2\delta = -[0.93723-1] \sin 2\delta$$

$$1.45595 \sin 2\delta + [0.99466] \cos 2\delta$$

$$1.20453 \sin 2\delta - 0.97886 \cos 2\delta = -1.00040 \sin 2\delta - 0.85485 \cos 2\delta$$

$$2.20493 \sin 2\delta - 0.12401 \cos 2\delta = 0$$

$$42\delta = \frac{0.12401}{2.20493} = \frac{0.09346-1}{0.34340}$$

$$2\delta = 3.219$$

$$\delta = 1.620$$

$$\sin 3.219 - \sin (3.219 + 101.802) = \frac{571.7}{3600}$$

$$0.05615 - 0.25925 = \frac{0.54715}{0.54715}$$

$$-0.20310 = \frac{0.20310}{0.20310}$$

$$0.05615 - 0.96580 = \frac{0.54715}{0.54715}$$

$$-0.90965 = \frac{0.95888-1}{20087-1}$$

$$C = 0.75801$$

$$4. \text{ada} \quad \sin 3.219 - \sin (3.219 + 180 - 2(\alpha_1 - \alpha_2)) = -C(\alpha_1 - \alpha_2)$$

$$\alpha_1 - \alpha_2 = 1.713 \quad \frac{3.426}{6.645} \quad 1107.6 = 2.03181$$

$$\sin 6.645 = 0.06340-1$$

$$0.12572 \quad \frac{0.5615}{0.5615}$$

$$+ 0.17187$$

$$+ 0.00022$$

$$\alpha_1 - \alpha_2 = 1.723 = 0.017453$$

$$0.017855 \quad \frac{12217}{12217}$$

$$3.446 \quad \frac{3.446}{0.665}$$

$$0.06470-1$$

$$0.11607 \quad \frac{5615}{0.11607}$$

$$0.17222 \quad \frac{0.17222}{0.17222}$$

$$\alpha_1 - \alpha_2 = 1.722 \quad 20.030054 = 0.47790-2$$

$$\frac{571.7}{3600} = 0.099$$

$$\frac{1660.6}{3600} = 2.87994$$

$$\frac{0.26364-1}{1.8338} = 0.18350 = 10^\circ 30' 50'' - 49'' = 10.514$$

$$\frac{0.0017}{17453} = 0.000097$$

$$\frac{0.00897}{0.00873} = 1.01717$$

$$\frac{0.00024}{0.00017} = 1.30514$$

$$\frac{0.93723-1}{0.06294} = 0.00017$$

$$\frac{0.93723}{93723} = 0.00001$$

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Főcdek

$$y = i \frac{c-2}{b^2+(c-2)^2} \frac{2a}{\sqrt{a^2+b^2+(c-2)^2}}$$

$$\frac{\partial y}{\partial z} = -i \frac{2a}{(b^2+c^2)\sqrt{a^2+b^2+c^2}} + \frac{2ac^2}{(b^2+c^2)(a^2+b^2+c^2)^{\frac{3}{2}}} + \frac{4ac^2}{(b^2+c^2)^2\sqrt{a^2+b^2+c^2}}$$

$$\frac{\partial y}{\partial z} = -\frac{2ai}{(b^2+c^2)^2(a^2+b^2+c^2)^{\frac{3}{2}}} \left[(b^2+c^2)(a^2+b^2+c^2) - c^2(b^2+c^2) - 2c^2(a^2+b^2+c^2) \right]$$

$$\left. \begin{array}{l} a^2b^2 + b^4 + 2c^2b^2 + a^2c^2 + c^4 \\ - a^2b^2 - c^4 \\ - 2a^2b^2 - 2a^2c^2 - 2c^4 \end{array} \right\} = a^2b^2 + b^4 - b^2c^2 - a^2c^2 - 2c^4$$

$$(b^2-c^2)(a^2+b^2+c^2) = a^2b^2 + b^4 + \cancel{b^2c^2} - a^2c^2 - \cancel{c^4}$$

$$\begin{array}{l} (b^2-c^2)(a^2+b^2) \\ + (b^2-c^2)c^2 - (b^2+c^2) \end{array} \quad \begin{array}{l} - \cancel{b^2c^2} - c^4 \\ - b^2c^2 - c^4 \\ - c^2(b^2-c^2) \\ - (b^2+c^2)b^2 \end{array}$$

$$(b^2-c^2)(a^2+b^2+c^2) - (b^2+c^2)b^2$$

$$\frac{\partial y}{\partial z} = -2ai \left\{ \frac{b^2-c^2}{(b^2+c^2)^2\sqrt{a^2+b^2+c^2}} - \frac{b^2}{(b^2+c^2)(a^2+b^2+c^2)^{\frac{3}{2}}} \right\}$$

ha $a = \infty$ $\frac{\partial y}{\partial z} = -2i \frac{b^2-c^2}{(b^2+c^2)^2}$ ha $b=c$ $\frac{\partial y}{\partial z} = 0$ $\frac{\partial y}{\partial z} = 0$

ha $b=0$ in $a=\infty$ $\frac{\partial y}{\partial z} = 0$

$$\frac{\partial y}{\partial z} = +2i \frac{ac^2}{c^4\sqrt{a^2+c^2}} = +2i \frac{a}{\sqrt{a^2+c^2}} \quad \text{für } b=0$$

ha $c=0$ $\frac{\partial y}{\partial z} = 0$

$$\frac{\partial y}{\partial z} = -2ai \left(\frac{1}{b^2\sqrt{a^2+b^2}} - \frac{1}{(a^2+b^2)^{\frac{3}{2}}} \right) = -2ai \frac{a^2+b^2 - (a^2+b^2)}{b^2(a^2+b^2)^{\frac{3}{2}}} = -2i \frac{a^3}{b^2(a^2+b^2)^{\frac{3}{2}}}$$

mit a b c a .

$$\frac{3a^2}{b^2} - \frac{3a^2}{(a^2+b^2)^{\frac{3}{2}}}$$

$$\delta = 0 \text{ m.}$$

5.

$\delta, \Delta\delta, \Delta\varphi, \Delta\gamma, \Delta\epsilon, \Delta b$ mognado helwängar skryggolva.

Tillstånd $\varphi = 0$

$$\begin{aligned} & Y_0 l - X_0 l \Delta\varphi - X_0 l \Delta\delta + l^2 \Delta\delta \frac{\partial^2 y}{\partial y^2} + \rho l \frac{\partial^2 y}{\partial y^2} \sin t_0 + \rho l \frac{\partial^2 x}{\partial y^2} \cos t_0 + \rho l \frac{\partial^2 y}{\partial y^2} \sin t_0 \\ & + \rho l \left(\frac{\partial^2 y}{\partial y^2} \cos t_0 - \frac{\partial^2 x}{\partial x^2} \cos t_0 + 2 \frac{\partial^2 x}{\partial y^2} \sin t_0 \right) \Delta\varphi - \rho l \left(\frac{\partial^2 x}{\partial x^2} \cos t_0 + \frac{\partial^2 y}{\partial y^2} \sin t_0 \right) \Delta\delta \\ & + w b l + w l \Delta b - w a l \Delta\varphi - w a l \Delta\delta + w \rho l \sin t_0 - w \rho l \cos t_0 \Delta\delta + w l^2 \Delta\delta \\ & + \epsilon l \sin \epsilon - \epsilon l \cos \epsilon \Delta\varphi - \epsilon l \cos \epsilon \Delta\delta + Q - q \Delta\varphi - q \Delta\delta \\ & + m l h \frac{\partial^2 h}{\partial y \partial z} \Delta\varphi + m l h \frac{\partial^2 h}{\partial y \partial z} \Delta\delta - m l h \frac{\partial^2 h}{\partial x \partial z} + K \left(\frac{\partial^2 h}{\partial y^2} - \frac{\partial^2 h}{\partial x^2} \right) \Delta\varphi + K \left(\frac{\partial^2 h}{\partial y^2} - \frac{\partial^2 h}{\partial x^2} \right) \Delta\delta + K \frac{\partial^2 h}{\partial x \partial y} \\ & + \tau (c + \gamma_1) + \tau \Delta\gamma - \tau \Delta\delta = 0 \end{aligned}$$

I allas'ban.

6

$$y_1 = -\frac{l}{\tau} y_0 - \frac{\partial l}{\partial y} \frac{\partial y}{\partial y} \sin \delta_0 - \frac{\partial l}{\partial y} \frac{\partial x}{\partial y} \cos \delta_0 - \frac{\omega l}{\tau} \sin \delta_0 - \frac{l}{\tau} \sin \varepsilon - \frac{Q}{\tau} \\ + m l h \frac{\partial^2 y}{\partial x^2} - \frac{\kappa}{\tau} \frac{\partial^2 y}{\partial x^2} - C$$

$$\left\{ -X_0 \frac{l}{\tau} + \frac{1}{\tau} \delta + \frac{\partial l}{\partial y} \left(\frac{\partial y}{\partial y} \cos \delta_0 - \frac{\partial x}{\partial y} \sin \delta_0 - 2 \frac{\partial x}{\partial y} \sin \delta_0 \right) - \frac{\partial l}{\partial y} \frac{l}{\tau} \cos \varepsilon - \frac{Q}{\tau} + m l h \frac{\partial^2 y}{\partial x^2} \right. \\ \left. + \frac{\kappa}{\tau} \left(\frac{\partial^2 y}{\partial y^2} - \frac{\partial^2 y}{\partial x^2} \right) \right\} \Delta \varphi$$

$$\left\{ -X_0 \frac{l}{\tau} + \frac{l^2}{\tau} \frac{\partial y}{\partial y} - \frac{\partial l}{\partial y} \left(\frac{\partial x}{\partial y} \cos \delta_0 + \frac{\partial x}{\partial y} \sin \delta_0 \right) - \omega a \frac{l}{\tau} - \omega \frac{l}{\tau} \cos \delta_0 + \omega \frac{l^2}{\tau} \right. \\ \left. - \frac{\partial l}{\partial y} \frac{l}{\tau} \cos \varepsilon - \frac{Q}{\tau} + m l h \frac{\partial^2 y}{\partial x^2} + \frac{\kappa}{\tau} \left(\frac{\partial^2 y}{\partial y^2} - \frac{\partial^2 y}{\partial x^2} \right) - 1 \right\} \Delta \delta \\ + \omega \frac{l}{\tau} \Delta b + \tau \Delta y = 0$$

φ konstans és δ és b változik

$$\frac{\Delta \delta}{\Delta y} = \frac{1}{1 + X_0 \frac{l}{\tau} + \frac{l^2}{\tau} \frac{\partial y}{\partial y} + \frac{\partial l}{\partial y} \left(\frac{\partial x}{\partial y} \cos \delta_0 + \frac{\partial x}{\partial y} \sin \delta_0 \right) + \omega a \frac{l}{\tau} + \omega \frac{l}{\tau} \cos \delta_0 + \omega \frac{l^2}{\tau}}$$

$$\frac{\Delta \delta}{\Delta b} = \frac{\omega \frac{l}{\tau}}{\frac{\partial l}{\partial y} \frac{l}{\tau} \cos \varepsilon + \frac{Q}{\tau} - m l h \frac{\partial^2 y}{\partial x^2} - \frac{\kappa}{\tau} \left(\frac{\partial^2 y}{\partial y^2} - \frac{\partial^2 y}{\partial x^2} \right)}$$

$$\frac{\Delta \delta}{\Delta b} = \frac{\omega \frac{l}{\tau}}{\text{az előbbi nevező}}$$

$$\frac{\Delta \delta}{\Delta \varphi} = \frac{-X_0 \frac{l}{\tau} + \frac{l}{\tau} \left(\frac{\partial y}{\partial y} \cos \delta_0 - \frac{\partial x}{\partial y} \sin \delta_0 - 2 \frac{\partial x}{\partial y} \sin \delta_0 \right) - \frac{\partial l}{\partial y} \frac{l}{\tau} \cos \varepsilon - \frac{Q}{\tau} + m l h \frac{\partial^2 y}{\partial x^2} + \frac{\kappa}{\tau} \left(\frac{\partial^2 y}{\partial y^2} - \frac{\partial^2 y}{\partial x^2} \right)}{\text{az előbbi nevező}}$$

I falls $\varphi = 0$

$$\delta_1 = -\frac{L}{T} y_0 - \rho \frac{L}{T} \frac{\partial \psi}{\partial y} \sin \lambda_0 - \frac{\rho L}{T} \frac{\partial \chi}{\partial y} \cos \lambda_0 - w \frac{L}{T} b - \frac{w \rho L}{T} \sin \lambda_0 - \frac{L}{T} \varepsilon \sin \varepsilon - \frac{Q}{T} + \frac{m h}{T} \frac{\partial \psi}{\partial x \partial z} - \frac{\kappa}{T} \frac{\partial \psi}{\partial x \partial y} - C$$

II falls $\varphi = \frac{\pi}{2}$

$$\delta_2 = +\frac{L}{T} x_0 - \rho \frac{L}{T} \frac{\partial \psi}{\partial x} \sin \lambda_0 + \frac{\rho L}{T} \frac{\partial \chi}{\partial y} \cos \lambda_0 + w \frac{L}{T} a - \frac{w \rho L}{T} \sin \lambda_0 + \frac{L}{T} \varepsilon \cos \varepsilon - \frac{Q}{T} + \frac{Q}{T} \frac{\pi}{2} - \frac{m h}{T} \frac{\partial \psi}{\partial y \partial z} + \frac{\kappa}{T} \frac{\partial \psi}{\partial x \partial y} - C$$

III falls $\varphi = \pi$

$$\delta_3 = +\frac{L}{T} y_0 + \rho \frac{L}{T} \frac{\partial \psi}{\partial y} \sin \lambda_0 - \frac{\rho L}{T} \frac{\partial \chi}{\partial y} \cos \lambda_0 + w \frac{L}{T} b - \frac{w \rho L}{T} \sin \lambda_0 + \frac{L}{T} \varepsilon \sin \varepsilon - \frac{Q}{T} + \frac{Q}{T} \pi - \frac{m h}{T} \frac{\partial \psi}{\partial x \partial z} - \frac{\kappa}{T} \frac{\partial \psi}{\partial x \partial y} - C$$

IV $\varphi = 3\frac{\pi}{2}$

$$\delta_4 = -\frac{L}{T} x_0 + \rho \frac{L}{T} \frac{\partial \psi}{\partial x} \sin \lambda_0 + \frac{\rho L}{T} \frac{\partial \chi}{\partial y} \cos \lambda_0 - w \frac{L}{T} a - \frac{w \rho L}{T} \sin \lambda_0 - \frac{L}{T} \varepsilon \cos \varepsilon - \frac{Q}{T} + \frac{Q}{T} 3\frac{\pi}{2} + \frac{m h}{T} \frac{\partial \psi}{\partial y \partial z} + \frac{\kappa}{T} \frac{\partial \psi}{\partial x \partial y} - C$$

$$(\delta_3 - \frac{\delta_1 + \delta_1'}{2}) = 2 \frac{L}{T} y_0 + 2 \rho \frac{L}{T} \frac{\partial \psi}{\partial y} \sin \lambda_0 + 2 w \frac{L}{T} b + 2 \frac{L}{T} \varepsilon \sin \varepsilon - 2 \frac{m h}{T} \frac{\partial \psi}{\partial x \partial z}$$

$$\delta_1 + \delta_2 + \delta_3 + \delta_4 = 4 \frac{w \rho L}{T} \sin \lambda_0 - 4 \frac{Q}{T} + \frac{Q}{T} 3\pi$$

$$(\frac{\delta_2 + \delta_2'}{2} - \delta_4) = 2 \frac{L}{T} x_0 - 2 \rho \frac{L}{T} \frac{\partial \psi}{\partial x} \sin \lambda_0 + 2 w \frac{L}{T} a + 2 \frac{L}{T} \varepsilon \cos \varepsilon - 2 \frac{m h}{T} \frac{\partial \psi}{\partial y \partial z}$$

Ms 5106/114

$$\begin{array}{r} 0,927062 - 1 \\ 15 \quad 05 \quad 15 \\ \hline 0,776547 \end{array}$$

$$\begin{array}{r} 0,846460 \\ 1060 \\ \hline 0,845400 \end{array}$$

$$\begin{array}{l} d_2 + d_6 = 0,847520 \\ d_2 + \frac{d_6}{3} + \frac{d_{10}}{5} = 0,846128 \\ 4d_2 + 12d_6 + 20d_{10} = 3,374398 \\ d_2 + 3d_6 + 5d_{10} = 0,843599 \end{array}$$

$$\begin{array}{l} 3d_2 + 3d_6 + 3d_{10} = 3,0,8475 \\ 3d_2 + d_6 + \frac{2}{5}d_{10} = 2,0,8461 \\ 2d_6 + (3 - \frac{2}{5})d_{10} = +3,0,001092 \\ d_6 + \frac{6}{5}d_{10} = \frac{2}{5} \end{array}$$

$$-2d_6 = -0,00019$$

$$4d_2 + 8d_{10} = 3,386160$$

$$\begin{array}{l} -2d_6 - 4d_{10} = 0,0039205 \\ d_6 + 2d_{10} = -0,00196025 \end{array}$$

$$\begin{array}{l} d_2 + 2d_{10} = 0,846549 \\ d_2 + \frac{22}{10}d_{10} = 0,847392 \end{array}$$

$$\begin{array}{l} d_{10} = -0,000239 \\ d_2 = +0,847018 \\ d_6 = -0,000741 \end{array}$$

$$\begin{array}{l} d_6 + \frac{6}{5}d_{10} = +0,000696 \\ \frac{4}{5}d_{10} = 0,002556 \\ 4d_{10} = 0,012786 \\ d_{10} = 0,003195 \end{array}$$

$$\begin{array}{l} -\frac{1}{5}d_{10} = 0,000145 \\ -\frac{12}{10}d_{10} = 0,000852 \\ d_{10} = -0,000725 \end{array}$$

$$\begin{array}{r} 0,597789 \\ 22122 \\ \hline 0,575667 \end{array}$$

$$4d_2 + 3d_6 + \frac{2}{5}d_{10} = 3,0,846$$

$$2d_2 + (\frac{3}{5} - \frac{2}{5})d_{10} = 2,0,846 - 0,8435$$

$$\begin{array}{r} 846540 \\ 478 \\ \hline 0,847018 \end{array}$$

$$\begin{array}{r} 9846779 \\ 847520 \\ \hline 0,000741 \end{array}$$

$$\begin{array}{r} 2,538384 \\ 847520 \\ \hline 1,694781 \end{array}$$

$$d_2 - d_6 + d_{10} = 0,847520$$

$$d_2 + 3d_6 + 5d_{10} = 0,843600$$

$$d_2 + \frac{1}{3}d_6 + \frac{1}{5}d_{10} = 0,846128$$

$$4d_6 + 4d_{10} = -0,003920$$

$$\frac{4}{3}d_6 - \frac{4}{5}d_{10} = -0,001392$$

$$\frac{32}{3}d_6 = -0,010880$$

$$22 \mid 0,032640 \mid 0,001020$$

$$d_{10} = -0,000980$$

$$\begin{array}{r} 847520 \\ 1060 \\ \hline 0,846460 \end{array}$$

$$0,54537$$

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$$\frac{1}{12}d_2 + d_4 + \frac{1}{12}d_6 - \frac{1}{12}d_{10}$$

$$\begin{array}{r} 0,927062 \\ 150515 \\ \hline 0,776547 \end{array}$$

$$\begin{array}{r} 3,974398 \\ 8435995 \end{array}$$

$$\begin{array}{r} 006960 \\ 2920 \\ \hline 0,610880 \end{array}$$

$$0,0021472$$

$$d_4 + 2d_8 = \frac{0,173992}{8}$$

$$2d_5 \quad d_4 + 2d_8 = -0,021749$$

$$\begin{array}{r} 214614 \\ \hline 0,000277 \\ 285 \\ \hline 1425 \end{array}$$

$$\begin{array}{r} 0,846460 \\ 1060 \\ \hline 0,845400 \end{array}$$

$$d_6 = 0,001020$$

$$d_{10} = +0,000040$$

$$d_2 = +0,846460$$

$$d_4 = -0,021464$$

$$d_8 = -0,0001425$$

$$0,007$$

$$\begin{array}{r} 0,597788 \\ 21464 \\ \hline 0,576316 \\ 0,576324 \end{array}$$

$$\begin{array}{r} 30796 \\ 12332 \\ \hline 21464 \end{array}$$

$$\begin{array}{r} 0,260283 \\ 0,466709-1 \\ \hline 0,827092-1 \\ 301020 \\ \hline 0,526062-1 \\ 0,485246 \\ \hline 0,040816-1 \\ 6016'8'' \end{array}$$

0104720
4654
29

0,109413

$$\begin{array}{r}
 0,569025 \\
 0,466709 - \\
 \hline
 0,035744 \\
 201020 \\
 \hline
 0,734714 - \\
 0,625557 \\
 \hline
 0,109157 - \\
 7^{\circ}19'36''
 \end{array}$$

$$\begin{array}{r} 9122173 \\ 5527 \\ 174 \\ \hline 9127874 \end{array}$$
$$\begin{array}{r} 0,560285 \\ 0,202262 \\ \hline 0,592645 \\ 201050 \\ \hline 0,291615 \\ 0,542674 \\ \hline 0,748941 - 1 \\ \hline 29^{\circ} 17' 28'' \end{array}$$
$$\begin{array}{r} 0,506145 \\ 4945 \\ 126 \\ \hline 0,511226 \end{array}$$

$$\begin{array}{r} 9,569025 \\ 0,202262 \\ \hline 9,801297 \\ 201030 \\ \hline 9,500267 \\ 0,657522 \\ \hline 9,842734-1 \\ 24^{\circ}50'44'' \end{array}$$

$$\begin{array}{r} 0,592412 \\ 14544 \\ 213 \\ \hline 0,608169 \end{array}$$

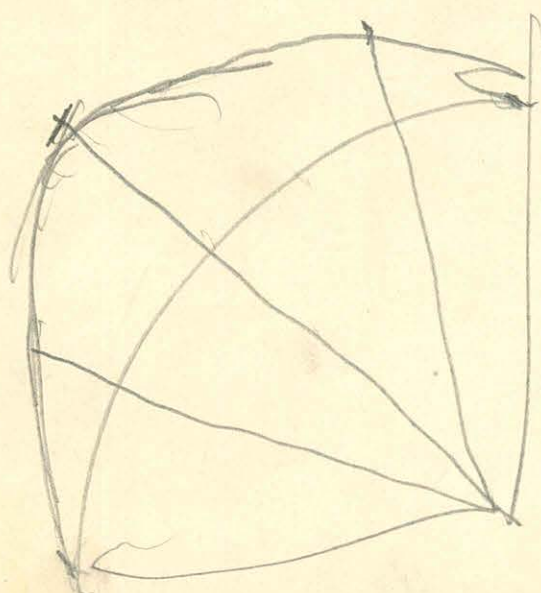
$(m_1)^{2-\frac{1}{n}} \quad \alpha = 2,292892 \quad \varphi = 3,056611$
 $(m_1)^{1-\frac{1}{n}} \quad \beta = 0,292892$
 $r = 2 \quad p_x \quad 1$

$$\begin{array}{r}
 3,05665 \\
 2,292899 \\
 \hline
 9 + a \quad 5,34954 \\
 9 - d \quad 9,76376 \\
 \hline
 \cancel{0,485247} \\
 0,728216 \\
 0,882957 - 1 \\
 \hline
 0,845359 \\
 0,927042 - 1 \\
 0,466709 - 1 \\
 0,301020 \\
 262216 \\
 \hline
 0,056997
 \end{array}$$
$$\begin{array}{r} 28 \\ 3,05665 \\ 292893 \\ \hline 598558 \\ 0,12772 \\ \hline 0,777106 \\ 106259 - 1 \\ \hline 1,660847 \\ 9,820404 \\ 0,260783 \\ 2,201020 \\ 262216 \\ \hline 1,843730 \end{array}$$

$$\begin{array}{r} 241. \\ 205665 \\ \hline 505665 \\ 185665 \end{array}$$

$$\begin{array}{r} 0,703864 \\ 0,022932 \\ \hline 0,679932 \end{array}$$

$$\begin{array}{r} 0,822465-1 \\ 0,466709-1 \\ 0,260382 \\ 362216 \\ \hline 0,021773 \end{array}$$



6,400704
800088

$d_6 = 0,00046167$
 $d_{10} = 0,00027026$
 $d_2 = 0,846326$

124,8 $24d_6 + 120d_{10} = 0,0435115$
120 $26,66667 + 124,8d_{10} = 0,0460400$

$(24,124,8 - 120 \cdot 26,66667)d_6 = 124,8 \cdot 0,0435115 - 120 \cdot 0,0460400$

2,096215	2,079181
1,380211	1,425969
<hr/> 2,476426	<hr/> 3,505150
2995,20	3200,00
	<hr/> 2995,20
	<hr/> 204,80

2,096215
0,638604 -2

0,734819
5,40024

2,079181
0,663135 -2

0,742316
5,52479
43024

0,09455

$d_6 + 5d_{10} = 0,00181298$
46167

105131
027026

$\log d_6 = 0,975662 - 2$
2,311330

0,664332 -4
0,638604 -2
1,380211

0,258393 -3

846128
154
54

846336

8435995
~~3151~~
13850
13510

846334

846336
462

0,846798
270

0,846528

846336
270

0,846606
462

0,846144

$\frac{1}{12}d_2 + d_4 + \frac{1}{12}d_6 + \frac{1}{12}d_{10}$

0,927444 -1
150515

0,776929 -1
0,598013
23610

0,574703

$$A_2 \text{ at } \frac{d_2 + \frac{1}{5}d_6 + \frac{1}{5}}{5}$$

$$\begin{array}{r} 84654 \\ 32 \\ \hline 84621 \end{array}$$

$$d_2 + d_6 = 0,84752$$

$$d_2 + \frac{1}{5}d_6 = 0,84612$$

$$d_6 =$$

$$\frac{d_2}{5} - \frac{4}{5}d_6 = 0,00140$$

$$- 0,00105$$

$$8d_2 + 16d_6 =$$

$$4d_2 + 12d_6 = 3,374298$$

$$d_2 + \frac{1}{5}d_6 = 0,84613$$

$$d_2 + 3d_6 = 0,84366$$

$$8d_2 = 0,773992$$

$$-\frac{8}{3}d_6 = 0,00253$$

$$00095$$

$$d_6 = -0,00095$$

$$d_2 = 0,84645$$

$$d_4 = -0,021750$$

$$\begin{array}{r} 84645 \\ 95 \\ \hline 0,84740 \end{array} 45^0$$

$$22\frac{1}{2} = 0,57611$$

$$\begin{array}{r} 0,84645 \\ 95 \\ \hline 0,84550 \end{array} \left\{ \begin{array}{l} 0,927774 - 1 \\ 150515 \\ \hline 0,776599 - 1 \end{array} \right.$$

$$\begin{array}{r} 0,597860 \\ 2175 \\ \hline 57611 \end{array}$$

$$\begin{array}{r} 597860 \\ 57571 \\ \hline 0,2215 \end{array}$$

2
16
11
2
1

021

8/621

2292893	0,292893	2	3			
3,05665	3,05665	3,05665	4,22228	4,22228	4,22228	4,22228
2,29289	0,29289	2	3,70711	0,29289	2,	2,
5,34954	3,04954	5,05665	7,92949	4,51527	6,22238	6,22238
0,76376	2,76376	1,05665	0,51527	3,92949	2,22228	2,22228
0,728316	0,524985	³⁸⁶³ 0,704721 X	0,899245	0,654684	0,792957	0,792957
0,882957-1	0,441501	0,022922	0,712035-1	0,594226	0,346818	0,346818
0,845359	0,083484	0,680789	1,187210	0,060348	0,447139	0,447139
0,927041-1	0,921603-2	0,679939	0,074528	0,780663-2	0,650442-1	0,650442-1
b-k 0,466709-1	0,201020	0,832012-1	0,466709-1	0,201020	0,466709-1	0,466709-1
0,201020	b-k 0,360282	0,466709-1	0,201030	0,569025	0,569025	0,569025
0,362216	0,262216	0,260383	0,262216	0,262216	0,262216	0,262216
0,056996	0,945232-1	0,262216	0,204483	0,012944	0,048408	0,048408
		0,022320				
		0,021773				
3,48878	3,48878	3,48878	4,54499	4,54499	4,54499	4,54499
2,29289	1,70711	2	3,70711	1,70711	2	2
5,78167	5,19589	5,48878	8,25210	6,25210	6,54499	6,54499
1,19589	2,9467	1,48878	0,83788	2,83788	2,	2,
0,762054	4,78167	0,729475	0,916564	0,796026	0,815909	0,815909
0,077691	0,715660	0,172860	0,923182-1	0,452994	0,405686	0,405686
0,684363	0,250828	0,566615	0,993382	0,343032	0,410223	0,410223
0,835287-1	0,464832	0,752288-1	0,997116-1	0,535335-1	0,613020-1	0,613020-1
b-k 0,202261-1	0,667296-1	0,232261-1	0,232261-1	0,201020	0,232261-1	0,232261-1
0,201020	0,201020	0,360383	0,201020	0,569025	0,569025	0,569025
0,262216	0,360383	0,262216	0,262216	0,362216	0,262216	0,262216
0,730794-1	0,262216	0,708148-1	0,892623-1	0,767616	0,776532-1	0,776532-1
	0,690925					

$$-\frac{1}{1+\frac{b^2c^2}{a^2g^2}} \cdot \frac{bc}{a^2g^2} \left(g + \frac{a^2}{g} \right) = -\frac{bc}{a^2g^2+b^2c^2} \cdot \frac{g^2+a^2}{g}$$

$$\frac{bc}{g+b^2c^2}$$

$$\text{why } \frac{bc}{a^2g^2+b^2c^2}$$

$$-\frac{bc}{a^2g^2+b^2c^2} \left(\frac{4a}{g} - \frac{g^2+a^2}{g^2} \cdot \frac{a}{g} \right) + \frac{g^2+a^2}{g} \cdot \frac{bc}{(a^2g^2+b^2c^2)} (2ag^2+2a^3)$$

$$-\frac{bc}{(a^2g^2+b^2c^2)g} \left\{ 4a - \frac{(g^2+a^2)a}{g^2} - \frac{(g^2+a^2)^2}{(a^2g^2+b^2c^2)} 2a \right\}$$

$$-\frac{abc}{(a^2g^2+b^2c^2)g} \left\{ 3 - \frac{a^2}{g^2} - 2 \frac{(g^2+a^2)^2}{(a^2g^2+b^2c^2)} \right\}$$

$$\frac{\partial}{\partial c} = \frac{1}{1+\frac{b^2c^2}{a^2g^2}} \left(\frac{c}{a^2g} - \frac{bc}{a^2g^2} \cdot a \cdot \frac{b}{g} \right)$$

$$\frac{2}{12} \frac{a^2g^2}{b^2c^2}$$

$$\frac{1}{a^2g^2+b^2c^2} \left(acg - \frac{abc^2}{g} \right)$$

$$\frac{ac}{(a^2g^2+b^2c^2)g} (g^2-b^2)$$

$$a.0,64 + b.0,6400 + c.0,640000 = 0,426609$$

$$b.92304 + 0,377856c = -0$$

$$+ \frac{1}{2} \frac{g^2}{c} \cdot \frac{bc}{b^2g^2+(a-l)^2c^2} \cdot \frac{g_1^2-(a-l)^2}{g_1} - \frac{1}{2} \frac{g^2(a-l)bc}{(b^2g^2+(a-l)^2c^2)g_1} \left\{ 3 - \frac{b^2}{g_1^2} - 2 \frac{(g_1^2+b^2)}{b^2g^2+(a-l)^2c^2} \right\}$$

$$\frac{1}{2} g^2$$

$$\begin{array}{r} 3260000 \\ 266650 \\ 5160000 \end{array}$$

$$\begin{array}{r} 6550 \\ 66599 \end{array}$$

$$\begin{array}{r} 1926800 \\ 621 \\ 0000600 \end{array}$$

2141592

$$\frac{1}{c} \frac{b}{a-l} = \frac{1}{2} = at = 0$$

$$\frac{1}{c} \frac{b}{a-l} = \frac{1}{2} = at \frac{4}{3} = 0,927292$$

$$\frac{1}{c} \frac{b}{a-l} = \frac{1}{2} = at = \frac{1}{3} = 0,333333$$

$$\frac{1}{c} \frac{b}{a-l} = \frac{1}{2} = \frac{\pi}{2} = 1,570796$$

$$\left\{ \frac{1}{c} \frac{b}{a-l} - \frac{1}{c} \frac{b}{a-l} \right\} = \frac{1}{2} \log \frac{5}{1} + \log \frac{2+\sqrt{5}}{2+3} = 0,628918$$

$$\left\{ \frac{1}{c} \frac{b}{a-l} - \frac{1}{c} \frac{b}{a-l} \right\} = \frac{1}{2} \log \frac{8}{4} + \log \frac{1+\sqrt{5}}{1+3} = 0,174639$$

$$- 0,927292$$

$$\begin{array}{r} 628918 \\ 9642502 \\ 0426208 \\ 0269278 \\ \hline 1348988 \\ 927292 \\ \hline 1551698 \\ 927292 \\ \hline 624405 \end{array}$$

$$\left[\right] 0,624405$$

$$- 0,624405 \varphi$$

$$\frac{2}{5} \log \left[\right] = 0,507292$$

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$$(2) = 0$$

$$1,854586$$

$$(3) = 0,045432$$

$$+ 0,624405 \varphi - 0,629579 \varphi$$

$$\begin{array}{r} 0,507292 \\ 0,045432 \\ 0,258616 \\ 446274 \\ \hline 1,257714 \\ 618195 \\ \hline 0,639519 \end{array}$$

$$0,628918 \varphi$$

$$d_4 + \frac{1}{6} d_8$$

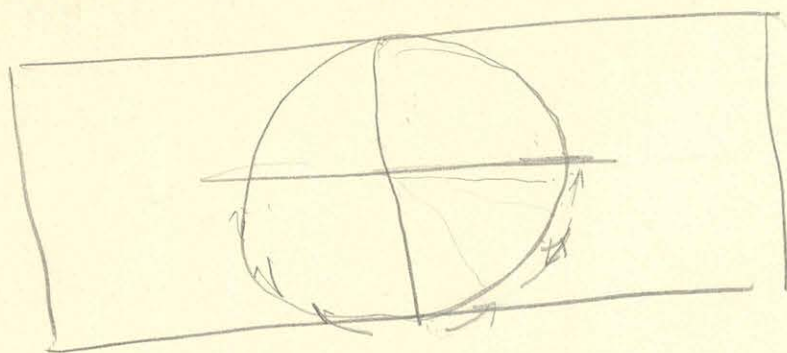
$$d_4 + 8 d_8 = 0,624405$$

$$\frac{1}{6} d_4 + \frac{1}{6} 512 d_8 = 0,629519$$

$$4,64 d_4 + 8,64 d_8 = 64 \cdot 0,624405$$

$$64 d_4 + 8,64 d_8 = 6 \cdot 0,629519$$

$$192 d_4 =$$



$$F = m l^2 (A_2 \sin 2\varphi + A_4 \sin 4\varphi + A_6 \sin 6\varphi + A_8 \sin 8\varphi + \dots)$$

$$\frac{\partial F}{\partial \varphi} = m l^2 (2A_2 \cos \varphi + 4A_4 \cos 4\varphi + 6A_6 \cos 6\varphi + \dots)$$

largest $\varphi = 0$ $\frac{\partial F}{\partial \varphi} = m l^2 (2A_2 + 4A_4 + 6A_6 + \dots)$

smallest $\varphi = \frac{\pi}{2}$ $\frac{\partial F}{\partial \varphi} = m l^2 (\underline{2A_2 + 4A_4 - 6A_6 + \dots})$

$\varphi = \frac{\pi}{4}$ $\frac{\partial F}{\partial \varphi} = -m l^2 (0 - 4A_4 + 0 + 8A_8 - 12A_{12} + \dots)$

$\varphi = \frac{\pi}{6}$ $\frac{\partial F}{\partial \varphi} = -m l^2 (A_2 - 2A_4 - 6A_6 - 4A_8 + 5A_{10} + 12A_{12} + \dots)$

$\varphi = \frac{\pi}{5}$ $\frac{\partial F}{\partial \varphi} = -m l^2 (-A_2 - 2A_4 + \underline{6A_6} - 4A_8 - 5A_{10} + 12A_{12} - 7A_{14} + \dots)$

$$A_2 - A_6$$

656166
762694
1,418860

0,151940
0,232261
0,384201

1,277996
1,405512
2,783509

0,444592
0,466709 -1
0,911301 -1

0,115261 -1
0,360782
0,475744 -1
0,628299 -2
0,569035
0,197434 -1

1- 3389110
912290
1194617
0060906
992141
1- 4396160
0,796024
0,215660

012529
664454
4,207102

685615
818810
4,707102

9928410

171

9408504

0,237341

0,275273 -1
569035
0,944408 -1

0,486792
0,687244 -1
0,360782
0,047727

0,428151 -1
0,466709 -1
0,894860 -2

~~0,25478~~
0,255478 -1
0,222261
0,487739 -1

2- 1245240
912290
122221
0,06221
1951100
992141
1- 1000180
0,654684
0,524985

125152
422224
0,229282

456485
599508
0,229282

9921410
1852820
9849960
1,249012
451526
12,74265

2456104 { +2,42215 -0,815270
0,29905
0,157556
0,817008
3,69576
81527
2,88049

=2,88049
2456104

2456104 { +0,879848 -1,11516
0,0784982
0,207425
0,233722
1,599993
111616
0,48333

288049
48224
2,39716

0,166861
0,379697
849485 -1
0,229182
~~1,69504~~

1- 2098480
912290
2- 1609860
0,0986291 -2
5169600
102111
1- 1826860
0,916564
0,899245

012528
664454
3,707102

616264
822224
3,707102

1021110

616264
822224

1- 0661920
912290
2- 1125060
0,0905774 -2
9640800
114224
1- 2929960
0,762054
0,728216

517816
0,48878
2,292829

456485
599508
2,292829

1021110
1948220
0,612196
0,809743

456485
599508

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$$\begin{array}{r} 36 \\ 26 \\ \hline 216 \\ 108 \\ \hline 1296 \end{array}$$

0,001603
237561

$$\begin{array}{r} 4809 \\ 1600 \\ \hline 0,00020899 \\ 227501 \\ \hline 2277690 \end{array}$$

$$\begin{array}{r} 136 \\ 26 \\ \hline 216 \\ 108 \end{array}$$

9 $\overline{77776}$
 $\overline{5888}$
 $\overline{0,046656}$

$$0,6^6 = 0,046656$$

0,04275

207567
199

96 01 237362
667152

$$\begin{array}{r}
 232280 \\
 326592 \\
 93312 \\
 186629
 \end{array}$$

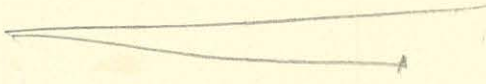
0,50019945440

$$\begin{array}{r}
 7002912 \\
 2001456 \\
 \hline
 248174 \\
 23726 \\
 \hline
 \end{array}$$

$$\frac{2\omega l}{v_2}$$

241.2

$$Y_{\text{kin}} - \frac{2}{\partial x} Y_{\text{kin}}$$



$$\ln(1-k)^2 = 0,900419 - 2$$

$$\ln(1+k)^2 = 0,464522$$

$$1+k$$

$$1+k^2$$

$$(1-k)^2$$

$$\begin{array}{r} 0,292843 \\ 2,64575 \\ \hline 2,938593 \end{array}$$

$$d_4 + 2d_8 + 3d_{12} = 0,131101$$

$$\begin{array}{r} 0,900419 - 2 \\ 201020 \\ \hline 1,204449 \end{array}$$

$$\begin{array}{r} 0,464522 \\ 301020 \\ \hline 765552 \end{array}$$

$$\begin{array}{r} 0,292843 \\ 2042448 \\ \hline 2,335341 \end{array}$$

$$\begin{array}{r} 1,707107 \\ 2,64575 \\ \hline 4,352857 \end{array}$$

$$\begin{array}{r} 0,278512 \\ 182167 \\ \hline 0,095345 \\ 0,031782 \end{array}$$

$$\begin{array}{r} 1,707107 \\ 213504 \\ \hline 9,842147 \end{array}$$

$$\left(\frac{\partial F}{\partial x}\right)_0 = 4d_4 + 8d_8 + 12d_{12} = 0,624405$$

$$\left(\frac{\partial T}{\partial y}\right)_{y_0} = -4d_4 + 8d_8 - 12d_{12} = 0,185770$$

$$\begin{array}{l} 0_{\text{m}} + \frac{d_4}{4} + \frac{d_8}{8} + \frac{d_{12}}{12} \\ y_0 - \frac{d_4}{4} + \frac{d_8}{8} - \frac{d_{12}}{12} \end{array}$$

$$(V_{y_0} - V_0) = +\frac{d_4}{2} + \frac{d_{12}}{6} = 0,083394$$

$$8d_4 + 24d_{12} = 0,810175$$

$$d_4 + \frac{d_{12}}{3} = 0,166788$$

$$d_4 + \frac{3}{2}d_{12} = 0,101272$$

$$d_4 =$$

$$\begin{array}{r} 0,166788 \\ 016379 \\ \hline 0,183167 \end{array}$$

$$\left(\frac{3}{2} - \frac{1}{3}\right)d_{12} = 0,65516$$

$$\frac{4}{3}$$

$$0,196548$$

$$0,049137$$

$$8d_4 = 0,810175$$

$$d_{12} = -0,049127$$

$$d_{12} = -0,049127$$

$$d_4 = +0,182167$$

$$d_8 = +0,031782$$

MASTAK
TIDOMAKOS AKADEMIA
KONTIARA

$$F = \frac{1}{4} \left[\frac{1}{2} \left(\frac{1}{2} \right) \right]$$

$$\begin{aligned}(2+\lambda) &= 3,8 \\ 2-\lambda &= 2,2 \\ 1+\lambda &= 1,8 \\ 1-\lambda &= 0,2\end{aligned}$$

$$\begin{aligned}14,44 \\ 4,84 \\ 3,24 \\ 0,04\end{aligned}$$

$$\begin{aligned}1,488696 \\ 0,992995 \\ 0,918927 \\ 0,621000\end{aligned}$$

$$\begin{aligned}\log \sqrt{5+0+\lambda^2} &= 0,644248 \quad \sqrt{} = 4,409080 \\ \log \sqrt{5+(2-\lambda)^2} &= 0,496497 \quad \sqrt{} = 3,126872 \\ \log \sqrt{1+(1+\lambda)^2} &= 0,605292 \quad \sqrt{} = 4,029891 \\ \log \sqrt{1+(1-\lambda)^2} &= 0,557629 \quad \sqrt{} = 3,611092\end{aligned}$$

$$\begin{aligned}0,642453 \\ 0,496497 \\ \hline 0,146956 \\ \times 54^\circ 30' 50''\end{aligned}$$

$$\begin{aligned}87226 \\ 0,9424778 \\ 145444 \\ 2434\end{aligned}$$

$$\begin{aligned}0,9572656 \\ \hline 0,9572656\end{aligned}$$

$$\begin{aligned}0,9572656 \\ \hline 0,9572656\end{aligned}$$

$$\begin{aligned}0,880814 \\ 0,644248 \\ \hline 0,236566 \\ 59^\circ 52' 48''\end{aligned}$$

$$\begin{aligned}1,0297443 \\ 151262 \\ 2366\end{aligned}$$

$$\begin{aligned}1,0451071 \\ \hline 1,0451071\end{aligned}$$

$$\begin{aligned}1,0451071 \\ \hline 1,0451071\end{aligned}$$

$$\begin{aligned}0,507030 \\ 0,644248 \\ \hline 0,656682 - 1 \\ 0,579784\end{aligned}$$

$$\begin{aligned}0,076898 - 1 \\ 6^\circ 48' 26''\end{aligned}$$

$$\begin{aligned}0,1047198 \\ 139626 \\ 1261\end{aligned}$$

$$\begin{aligned}0,1188085 \\ \hline 0,1188085\end{aligned}$$

$$\begin{aligned}0,1188085 \\ \hline 0,1188085\end{aligned}$$

$$\begin{aligned}0,507030 \\ 0,496497 \\ \hline 0,804533 - 1 \\ 0,242422\end{aligned}$$

$$\begin{aligned}0,462110 - 1 \\ 16^\circ 9' 44'' 43''\end{aligned}$$

$$\begin{aligned}0,2792527 \\ 26180 \\ 2031\end{aligned}$$

$$\begin{aligned}0,2820738 \\ \hline 0,2820738\end{aligned}$$

$$\begin{aligned}0,2820738 \\ \hline 0,2820738\end{aligned}$$

$$\begin{aligned}0,2820738 \\ \hline 0,2820738\end{aligned}$$

$$\begin{aligned}0,602060 - 1 \\ 0,557629 \\ \hline 0,044421 - 1 \\ 0,477121\end{aligned}$$

$$\begin{aligned}0,567300 - 2 \\ 2^\circ 6' 52'' 5\end{aligned}$$

$$\begin{aligned}0,0349066 \\ 17452 \\ 2546\end{aligned}$$

$$\begin{aligned}0,0369065 \\ \hline 0,0369065\end{aligned}$$

$$\begin{aligned}0,0369065 \\ \hline 0,0369065\end{aligned}$$

$$\begin{aligned}0,556202 \\ 0,605292 \\ \hline 0,951010 - 1 \\ 0,477121\end{aligned}$$

$$\begin{aligned}0,473889 - 1 \\ 16^\circ 34' 56''\end{aligned}$$

$$\begin{aligned}0,2792527 \\ 98902 \\ 2720\end{aligned}$$

$$\begin{aligned}0,2894149 \\ \hline 0,2894149\end{aligned}$$

$$\begin{aligned}0,2894149 \\ \hline 0,2894149\end{aligned}$$

$$\begin{aligned}0,778151 \\ 0,605292 \\ \hline 0,172758 \\ 0,255272\end{aligned}$$

$$\begin{aligned}0,917485 - 1 \\ 39^\circ 25' 21'' 6\end{aligned}$$

$$\begin{aligned}0,6806784 \\ 101811 \\ 1047\end{aligned}$$

$$\begin{aligned}0,6909642 \\ \hline 0,6909642\end{aligned}$$

$$\begin{aligned}0,6909642 \\ \hline 0,6909642\end{aligned}$$

$$\begin{aligned}0,778151 \\ 0,557629 \\ \hline 0,220512 \\ 0,507030 - 1\end{aligned}$$

$$\begin{aligned}0,919482 - 1 \\ 83^\circ 8' 10'' 8\end{aligned}$$

$$\begin{aligned}1,4486233 \\ 27271 \\ 523\end{aligned}$$

$$\begin{aligned}1,4510627 \\ \hline 1,4510627\end{aligned}$$

$$\begin{aligned}1,4510627 \\ \hline 1,4510627\end{aligned}$$

$$\begin{aligned}1,188647 \\ 0,766415 \\ \hline 0,422234 \\ 0,211117\end{aligned}$$

$$\begin{aligned}0,710699 \\ 0,806796\end{aligned}$$

$$\begin{aligned}0,903903 - 1 \\ 211117\end{aligned}$$

$$\begin{aligned}0,115020 \\ \hline 0,115020\end{aligned}$$

$$\begin{aligned}0,060773 - 1 \\ 262216\end{aligned}$$

$$\begin{aligned}0,422989 - 1 \\ \hline 0,422989 - 1\end{aligned}$$

$$\begin{aligned}0,264843 \\ \hline 0,264843\end{aligned}$$

$$\begin{aligned}0,264843 \\ \hline 0,264843\end{aligned}$$

$$\begin{aligned}1,087751 \\ 0,956168 \\ \hline 0,131583 \\ 0,065807\end{aligned}$$

$$\begin{aligned}0,749047 \\ 0,780709\end{aligned}$$

$$\begin{aligned}0,968128 - 1 \\ 065807\end{aligned}$$

$$\begin{aligned}0,034545 \\ \hline 0,034545\end{aligned}$$

$$\begin{aligned}0,538285 - 2 \\ 262216\end{aligned}$$

$$\begin{aligned}0,900601 - 2 \\ \hline 0,900601 - 2\end{aligned}$$

$$\begin{aligned}0,079543 \\ \hline 0,079543\end{aligned}$$

$$\begin{aligned}0,079543 \\ \hline 0,079543\end{aligned}$$

$$\begin{aligned}1,265761 \\ 0,946452 \\ \hline 0,319309 \\ 0,159655\end{aligned}$$

$$\begin{aligned}0,616672 \\ 0,703123\end{aligned}$$

$$\begin{aligned}0,882549 - 1 \\ 159655\end{aligned}$$

$$\begin{aligned}0,043204 \\ \hline 0,043204\end{aligned}$$

$$\begin{aligned}0,605524 - 2 \\ 262216\end{aligned}$$

$$\begin{aligned}0,997740 - 2 \\ \hline 0,997740 - 2\end{aligned}$$

$$\begin{aligned}0,099481 \\ \hline 0,099481\end{aligned}$$

$$\begin{aligned}0,099481 \\ \hline 0,099481\end{aligned}$$

$$\begin{aligned}0,859729 \\ 0,606581 \\ \hline 0,253148 \\ 0,126679\end{aligned}$$

$$\begin{aligned}0,820273 \\ 0,846948\end{aligned}$$

$$\begin{aligned}0,973325 - 1 \\ 126679\end{aligned}$$

$$\begin{aligned}0,100004 \\ \hline 0,100004\end{aligned}$$

$$\begin{aligned}0,000017 - 1 \\ 262216\end{aligned}$$

$$\begin{aligned}0,362233 - 1 \\ \hline 0,362233 - 1\end{aligned}$$

$$\begin{aligned}0,230268 \\ \hline 0,230268\end{aligned}$$

$$\begin{aligned}0,230268 \\ \hline 0,230268\end{aligned}$$

$$\begin{array}{r}
 1,692920 \\
 0,001496 \\
 \hline
 1,694416 \\
 94608 \\
 \hline
 1,600208
 \end{array}$$

$$\begin{array}{r}
 0,088488 \\
 6120 \\
 \hline
 0,094608
 \end{array}$$

$$\begin{array}{r}
 846460 \\
 6120 \\
 \hline
 1496
 \end{array}$$

$$\begin{array}{r}
 846460 \\
 22122 \\
 \hline
 1496
 \end{array}$$

$$\begin{array}{r}
 1,692920 \\
 88488 \\
 \hline
 400
 \end{array}$$

$$\begin{array}{r}
 1,781808 \\
 7616 \\
 \hline
 1,774192
 \end{array}$$

$$\begin{array}{r}
 6120 \\
 1496 \\
 \hline
 7616
 \end{array}$$

$$\begin{array}{r}
 3,385840 \\
 1,128613
 \end{array}$$

MAGYAR
TUDOMÁNYOS AKADEMIA
KÖNYVTÁRA

$$\begin{array}{r}
 0,244824 - 2 \\
 1,806180 \\
 \hline
 0,151004 \\
 778151 \\
 \hline
 0,212853 - 1
 \end{array}$$

$$\begin{array}{r}
 0,008600 - 3 \\
 2,228456 \\
 \hline
 0,347056 - 1 \\
 778151 \\
 \hline
 0,568905 - 2 \\
 0,027060
 \end{array}$$

$$\begin{array}{r}
 3,622260 \\
 2,709270 \\
 \hline
 0,271842 - 4 \\
 0,981112 - 2 \\
 778151 \\
 \hline
 0,202961 - 2
 \end{array}$$

$$-0,235969$$

$$\begin{array}{r}
 1,128613 \\
 15957 \\
 6667 \\
 \hline
 1,151237 \\
 273029 \\
 \hline
 0,878208
 \end{array}$$

$$\begin{array}{r}
 225969 \\
 27660 \\
 \hline
 273029
 \end{array}$$

$$\begin{array}{r}
 0,015957 \\
 0,04000 \\
 \hline
 0,00666
 \end{array}$$

Augst.

$$\begin{array}{r}
 21868 \\
 255 \\
 \hline
 22123
 \end{array}$$

$$\begin{array}{r}
 0,037060 \\
 15957 \\
 \hline
 53017
 \end{array}$$

$$\begin{array}{r}
 1,128613 \\
 0,225969 \\
 6667 \\
 \hline
 1,371349 \\
 53017 \\
 \hline
 1,018032
 \end{array}$$

1374262
291422
1665685

1374262
8579
1782842

525725
291422
1217157

525734
08579
924313

1315065
0657523

1251113
0625557
5876670

1085744
0542673
3488

0970492
0485246

202136
29289
201425
1172847

03070000
01505150
08494850

7071068
2928922

4667092-1

09334186-2
008578643
417157286

06202999
031014995

2042448

$\frac{1(1+3)}{(1-3)(3)^2}$

$\frac{\frac{1}{2} + \frac{1}{2(1-3)} + \frac{1}{2(1+3)}}{\frac{1}{2} + \frac{1}{2(1-3)} + \frac{1}{2(1+3)}}$

$\frac{1(1+3)}{(1-3)^2}$

519596
0892800
1-0482850

2283527
1448463
0834564

629012
716211
938304

0691855
0691855
1757168
1448963

0629012
716211
912768
156384

0276742
0069186
008928
18928
283784

1279379
0316136
776724
2467239
1420926
1036303
824564
18708

108680
271655
1050601
1430926
2130871
1917798
1022208
869135

1730871
1917798
622208
469125
1328557
1296182
11009526
0989088

0592716
0317252
0220722
0281444
0584504
1187432
0506110
0140722
0584504
1187432

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$\frac{c(a+2b)}{b+2c}$

$\frac{c(a+2b)}{b+2c}$

$\frac{c(a+2b)}{b+2c}$

0,301020
0,150515
0,849485-1

$$\frac{1}{\sqrt{e}} = 0,707107 \quad \ln(1 + \frac{1}{\sqrt{e}}) = 0,202261$$

$$1 - \frac{1}{\sqrt{e}} = 0,292893$$

202261
464522

0,360382
0,720766 - 85786

8,17156

3,707107

0,466709

0,933420 - 2

933418

0,569035
1,138070

12,74262
291422
16,65685

0,085779
525734
9,04313

12,74262
085779
17,82842

$$(1 + \frac{1}{\sqrt{e}})^2 = 2,91422$$

$$(3 - \frac{1}{\sqrt{e}})^2 = 5,25734$$

$$(2 + \frac{1}{\sqrt{e}})^2 = 13,74263$$

$$(1 - \frac{1}{\sqrt{e}})^2 = 0,0857868$$

284
42

0,671286

5,82844

0,992485

0,7
1,1
1,1
2,84

1,085248

1,215065

0,970492

1,251113

1
0,661414
0,232262
0,429152
542674
0,886478-1
37° 25' 44"
645772
10181
213
9656166

2
0,870065
0,232262
0,637803
657533
0,980270-1
43° 41' 57"
750492
11926
276
0,762694

3
0,661414
0,466709-1
1,194705
485246
0,709459
78° 57' 12"
1,361257
16581
58
1,077996

4
0,870065
0,466709-1
1,403356
625557
0,777199
80° 31' 48"
1,396262
9017
233
1,405513

5
0,532291
0,569035
0,964256-1
657522
0,306723-1
11° 27' 19"
191986
7854
92
0,199932

6
0,767740-1
569035
0,198705-1
0,625557
0,573148-2
2° 8' 36"
0,034907
2527
175
0,037409

7
0,532291
0,466709-1
0,260383
0,172908
0,542674
0,630234-1
23° 6' 48"
401426
1745
222
0,402404

8
0,767740-1
0,466709-1
0,260383
0,407357-1
485246
0,922111-2
4° 46' 40"
0,069813
15281
194
0,083388

$$\left. \begin{aligned} 8d_2 + 24d_6 + 40d_{10} &= -6,748796 \\ 8d_2 + 216d_6 + 1000d_{10} &= -6,594237 \\ 8d_2 - 8d_6 + 8d_{10} &= -6,780160 \end{aligned} \right\}$$

$$192d_6 + 960d_{10} = 0,154559$$

$$d_6 + 5d_{10} = 0,000804995$$

$$d_6 + d_{10} = 0,00098012$$

$$4d_{10} = 0,00706983$$

$$0,00017513$$

$$d_2 + 3d_6 + 5d_{10} = -0,8435995 \quad 0,0000438$$

$$d_2 + 27d_6 + 125d_{10} = -0,8242796$$

$$d_2 - d_6 + d_{10} = -0,8475200$$

$$\begin{array}{r} 846452 \\ 5475 \\ \hline 0,851927 \\ 27648 \\ \hline 824279 \end{array}$$

$$\begin{array}{r} 0,927054-1 \\ 150515 \\ \hline 0,776539 \end{array}$$

$$\begin{array}{r} 0,597777 \\ 22602 \\ \hline 0,575175 \end{array}$$

$$2,198079$$

$$0,189094-1$$

$$2,280001$$

$$0,905793-4$$

$$22 \mid 0,031364 \mid 0,00098012$$

$$d_{10} = 0,001$$

$$\begin{array}{r} 0,847152 \\ 001068 \\ \hline d_1 846452 \end{array}$$

$$0,0428$$

$$0,005475$$

$$\begin{array}{r} 0,846452 \\ 428 \\ \hline 0,846014 \\ 1024 \\ \hline 0,844990 \end{array}$$

$$\begin{array}{r} 0,003072 \\ 0,027648 \end{array}$$

$$\begin{array}{r} 846452 \\ 000219 \\ \hline 0,846671 \\ 1072 \\ \hline 845599 \end{array}$$

$$\begin{array}{r} 846452 \\ 1068 \\ \hline 0,845384 \end{array}$$

$$\begin{array}{r} 0010209 \\ 428 \\ \hline 10677 \end{array}$$

$$\begin{array}{r} 846452 \\ 1044 \\ 24 \\ \hline 847520 \end{array}$$

$$\begin{array}{r} 0,926852 \\ 150515 \\ \hline 0,776337 \end{array}$$

$$\begin{array}{r} 0,597499 \\ 22602 \\ \hline 0,574897 \end{array}$$

$$0,574897$$

$$d_{10} = -0,0000438$$

$$d_6 = 0,0010209$$

$$d_1 = -0,846452$$

$$2^2(a-l)^2 + 2^2b^2 + 2^2c^2 + (a-l)^2c^2$$

$$(b^2+c^2)(a-l)^2 + 2^2(b^2+c^2)$$

$$(b^2+c^2)[(a-l)^2 + 2^2]$$

$$-4/52^2(0,146080)$$

$$1) = 160 \left[\frac{1}{9(a-l)^2 + 2^2} \right] = 2 \left(\frac{1}{3.5} - \frac{1}{17\sqrt{21}} \right) = 0,107662$$

$$2) = \frac{2}{3.3.25} \left(-3 + \frac{200}{25} + \frac{1}{9} \right) = 0,0454221$$

$$3) = \frac{4}{3\sqrt{21.85}} \left(-3 + 2\frac{484}{85} + \frac{1}{21} \right) = \frac{0,028876}{0,074308}$$

$$\begin{array}{r} 0,066667 \\ 12836 \\ \hline 0,053831 \end{array}$$

$$\begin{array}{r} 1,200449 \\ 0,661110 \\ \hline 1,891559 \\ 0,108441-2 \end{array}$$

$$\underline{\underline{0,072549}}$$

255

$$\begin{array}{r} 8.46.368 \\ 9009 \quad 8100 \end{array}$$

$$\begin{array}{r} 2,565848 \\ 3,908485 \\ \hline 0,657363-2 \end{array}$$

968

$$\begin{array}{r} 522219 \\ 677781-2 \end{array}$$

$$\begin{array}{r} 2,985875 \\ 1,925419 \\ \hline 1,056456 \end{array}$$

$$\begin{array}{r} 48,2882 \\ 476 \\ \hline 8,4258 \\ 23,7432 \end{array}$$

$$\begin{array}{r} 0,661110 \\ 2,406540 \\ \hline 3,067650 \end{array}$$

$$\begin{array}{r} 1,528187 \\ 3,067650 \\ \hline 0,460537-2 \end{array}$$

$$\begin{array}{r} 0,215324 \\ 0,071772 \\ 74208 \\ \hline 0,146080 \end{array}$$

$$\begin{array}{r} 0,424724 \\ 226901 \\ 219568 \\ \hline 1,021193 \\ 0,643502 \\ \hline 0,377691 \end{array}$$

$$\begin{array}{r} 1,977894 \\ 877691 \\ \hline 1,600203 \\ 430432 \end{array}$$

$$\begin{array}{r} 3,955788 \\ 1,318596 \\ 424245 \\ \hline 432489251 \end{array}$$

$$\begin{array}{r} 0,062949 \\ 215216 \\ \hline 146080 \end{array}$$

$$-0,424245$$

$$\frac{(1x2+2x3)+(x2+4)}{(x(2+4)2+9(x2+4)2)} \cdot 2y$$

~~$$II = \lim_{\varphi} \left(\log \frac{c + \sqrt{(a+b)^2 + c^2}}{b} - \log \frac{c + \sqrt{(a+b)^2 + b^2 + c^2}}{\sqrt{a^2 + b^2}} \right)$$~~

$$\frac{0}{16} = \frac{1}{2} \cdot \frac{(a+b)^2 + b^2}{(a+b) + b^2}$$

$$= \frac{bc}{S_2(a+1)^2 + b^2} - \frac{bc}{S_1(a-1)^2 + b^2}$$

$$\begin{array}{r}
 28 \\
 08 \overline{) 28} \\
 \underline{08} \\
 20 \\
 16 \overline{) 20} \\
 \underline{16} \\
 4
 \end{array}$$

$$\begin{array}{r} 240611 \\ \times 281020 \\ \hline 11 \\ \hline 92856 \end{array}$$
$$\begin{array}{r} 112468'0 \\ \hline 648521'0 \\ 950201 \end{array}$$

61852 ~~1552~~

~~6682~~
805120'0
~~156420'0~~

$$\begin{array}{r} 28595'0 \\ 14615 \\ \hline 161280'0 \\ 825752'0 \\ \hline 288190'0 \\ 182' \\ \hline 999990'0 \end{array}$$

$$\begin{array}{r} 50488'0 \\ \hline 51951 \\ \hline 595070'1 \end{array}$$

$$\begin{array}{r}
 8051209 \\
 4254170 \\
 10538306 \\
 \hline
 12826 \\
 29992010
 \end{array}$$

$$\left(\frac{17.13}{1} - \frac{3(5)}{4} \right)$$

$$\frac{2}{3}$$
$$\begin{array}{r} 2-154801^10 \\ 65515811 \\ \hline 64405211 \\ 011199^10 \end{array}$$
$$\frac{11}{8} \frac{e}{2}$$
$$\frac{9}{1} + \frac{2}{1}$$

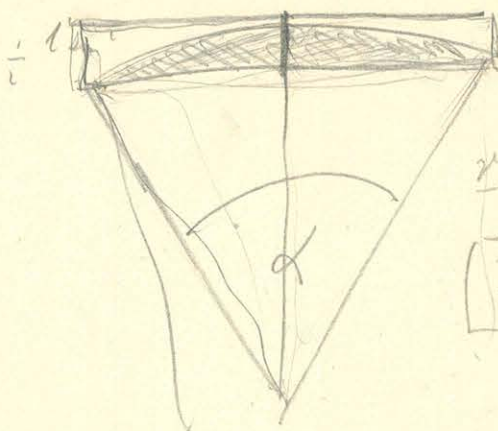
10
207009

+ 0,00001

$$\frac{1}{2} \frac{b^2 c}{S_1((a-l)^2 + b^2)}$$

$$\frac{1}{8} l^2 \sin^2 \varphi \frac{bc}{S_1((a-l)^2 + b^2)}$$

21-
1/2 r sin d
r cos
212



$$\frac{r^2}{2} - r^2 \frac{\sin \alpha}{2}$$

$$\frac{r^2}{2} - \frac{r^2 \sin \alpha \cos \frac{\alpha}{2}}{2}$$

$$\frac{r^2}{2} (\alpha - \sin \alpha)$$

$$\frac{r^2}{2} \left(\frac{\alpha^3}{6} \right)$$

$$+ \frac{d^2}{8} r^2 \left(\frac{r^2 \alpha^3}{8} \right)$$

$$g^2 = ((a+x)^2 + b^2 + c^2)$$

$$\frac{r^2}{4} (\alpha^3)$$

$$\frac{r^4}{4} \left(\frac{\alpha^3}{3} \right)$$

$$\frac{(a+x) c}{g \cdot ((a+x)^2 + b^2)}$$

21-
212

$$\frac{r^2}{8} \left(\frac{\alpha^3}{3} \right) \left| \frac{r^2 \alpha^3}{8} \right|$$

10
1600200
44
15751

ac
212

$$\frac{1}{6}$$

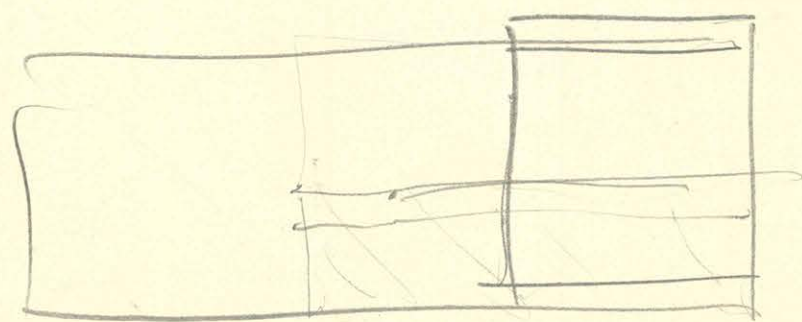
$$\frac{r^2}{8} \alpha^3$$

$$\frac{1}{6} \alpha^3$$

$$- \frac{1}{2} \frac{r^2}{4} + \frac{1}{6} = \text{hump} -$$

$$\frac{r^2}{2} \left(\alpha - \frac{1}{6} \alpha^3 \right)$$

$$- \frac{1}{2} \frac{r^2}{4} + \frac{1}{6} = \text{hump} -$$



$$\frac{1}{12}$$

$$\frac{1}{8} - \frac{1}{12}$$

$$\frac{1.5 - 1}{12} = \frac{1}{24}$$

1600000
+ 0.000001

$$\frac{(1.2+0.5) \cdot 5}{9.00} + \frac{5_2(1.2+0.5)}{9.000} = \left((1.2+0.5) + 5_2 \right) \frac{5_3(a^2+b^2)}{9.000}$$

$$\left(\frac{5}{1.2+0.5} + 9.25 \right) \frac{5_2(a^2+b^2) \cdot 6}{20}$$

$$b=3 \quad a=1 \quad c=2 \quad l=1$$

$$S_1^2 = 13$$

$$S_2^2 = 17$$

$$\frac{6}{11} = \frac{12}{3} \left(\frac{1}{9\sqrt{13}} - \frac{1}{13\sqrt{17}} \right) = 0,0121600 = 0,0486400$$

$$2) \equiv 0,000000 \quad 5,176470$$

$$2) = \frac{2}{(9,17+16)\sqrt{17}} \left[-3 + \frac{1352}{9,17+16} + \frac{3}{17} \right] =$$

$$\frac{0,0148577}{0,0634977}$$

$$\begin{array}{r} -4/51^2 0,0634977 \\ 1,447730 \\ -4/51^2 1,511228 \end{array}$$

~~log 13 = 0,113943~~

$$\log 13 = 1,113943$$

$$\log \sqrt{13} = 0,556972$$

$$\begin{array}{r} 0,954242 \\ 1,511215 \end{array}$$

$$\log \sqrt{17} = \frac{1,113943}{0,615225} = 1,729168$$

$$\log 17 = 1,230449$$

$$\frac{2}{17} = 0,1176470$$

$$0,270832 - 2$$

$$\begin{array}{r} 90308166 \\ 186566 \\ \hline 0,0121600 \\ 4864 \end{array}$$

$$0,488785 - 2$$

$$\begin{array}{r} 0,477121 \\ 1,230449 \\ \hline 0,246672 - 1 \end{array}$$

$$\frac{153}{169}$$

$$\begin{array}{r} 3,130977 \\ 2,227887 \\ \hline 0,903090 \end{array}$$

8

$$2 \cdot \frac{26^2}{9,17+16}$$

$$\frac{1252}{228}$$

$$\begin{array}{r} 0,714024 \\ 2,843112 \\ \hline 0,870922 - 2 \end{array}$$

$$\begin{array}{r} 2,227887 \\ 615225 \\ \hline 2,843112 \end{array}$$

$$\begin{array}{r} 0,00742885 \\ 0,0148577 \end{array}$$

$$\begin{array}{r} 160000 \\ 77420 \\ \hline 237440 \end{array}$$

$$\begin{array}{r} 1,258022 \\ 286659 \\ 542282 \end{array}$$

$$[] = 2,086963$$

$$\begin{array}{r} 0,347827 \\ 1,099902 \end{array}$$

$$\begin{array}{r} 1,447730 \\ 208512 \end{array}$$

$$\begin{array}{r} 1,239218 \end{array}$$

$$\begin{array}{r} 2086963 \\ 1,312768 \\ \hline 1,714193 \end{array}$$

$$2,199807$$

$$\begin{array}{r} 6,25536 \\ 0,208512 \end{array}$$

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$$\begin{array}{r} 059500006 \\ 52140100 \\ 525162000 \end{array}$$

$$\begin{array}{r} 615118 \\ 207 \\ 127727 \\ \hline 121 \\ 256718 \end{array}$$

$$\begin{array}{r} 160000 \\ 77420 \\ \hline 237440 \end{array}$$

$$\log 13 - 4$$

$$\begin{array}{r} 1,258022 \\ 286659 \\ 542282 \\ \hline 2086962 \end{array}$$

$$0,0121600 = 0,012 + 0,00016$$

$$\begin{array}{r} 2,247828 \\ 3,034259 \\ \hline 5,382087 \end{array}$$

2410298

$$\begin{array}{r} 241029 + 3216,7 \\ 3216,7 \\ \hline 244245,7 \end{array}$$

6,771

$$\begin{array}{r} 6-6 \\ \hline 244255,7 \end{array}$$

$$\begin{array}{r} 0,575156 \\ 2,932252 \\ \hline 3,507408 \end{array}$$

3216,7

$$\begin{array}{r} 2,247828 \\ 1,517129 \\ \hline 0,830699 \end{array}$$

6,77172

$$\begin{array}{r} 32,8949 \\ \hline 39,66662 \end{array}$$

$$\begin{array}{r} - 0,00921052 \\ 0,00130690 \\ \hline 0,01051742 \end{array}$$

1,598425

$$\begin{array}{r} 0,287578 \\ \hline 1,886003 \end{array}$$

1,886003

5,387845

$$\begin{array}{r} 0,498158-4 \\ \hline 1,466126 \end{array}$$

1,466126

$$\begin{array}{r} 0,964284-3 \\ \hline \end{array}$$

$$\begin{array}{r} 2,247828 \\ 2,268891 \\ \hline 5,616719 \end{array}$$

$$\begin{array}{r} 2,1891550 \\ 2,932252 \\ \hline 5,820802 \end{array}$$

$$\begin{array}{r} 412732 \\ 666503 \\ \hline 1080235 \end{array}$$

$$\begin{array}{r} 2,247828 \\ 1,634445 \\ \hline 0,713383 \end{array}$$

5,16872

43,0968

$$\begin{array}{r} 48,2655 \\ \hline \end{array}$$

0,591321

800
900
72000
4

$$\begin{array}{r} 0,771824-1 \\ 1,113475 \\ \hline 0,658349-2 \end{array}$$

$$\begin{array}{r} 1,682637 \\ 1,466126 \\ \hline 3,149763 \\ 6,032520 \\ \hline 0,116243-3 \\ 1,445775 \\ \hline 0,562018-2 \end{array}$$

1

$$\begin{array}{r} 0,0455254 \\ \hline 1 \end{array}$$

0,0455254

105174

$$\begin{array}{r} 0,0250180 \\ \hline \end{array}$$

$$\begin{array}{r} 0,0560528 \\ \hline \end{array}$$

2400

456874

92105

48.900

42200

110000

0,00921052

0,0364769

0,0456874

455354

$$\begin{array}{r} - 0,0456874 \\ \hline 455354 \end{array}$$

455354

$$\begin{array}{r} 0,0912228 \\ \hline \end{array}$$

$$\begin{array}{r} 9,977728-2 \\ 1,106871 \\ \hline 0,084599 \\ 1,172914 \\ \hline 0,910685-2 \end{array}$$

$$\begin{array}{r} 0,0874114 \\ 0,888738 \\ \hline 0,4701494 \end{array}$$

$$\begin{array}{r} 0,723743-1 \\ 2,213742 \\ \hline 9,937485 \\ 2,347828 \\ \hline 0,589657-1 \end{array}$$

$$\begin{array}{r} 0,977728-2 \\ 1,089198 \\ \hline 0,066926 \\ 1,172914 \\ \hline 0,893012-2 \end{array}$$

$$\begin{array}{r} 0,0781650 \\ 0,358755 \\ \hline 0,436518 \end{array}$$

$$\begin{array}{r} 0,723743-1 \\ 2,213742 \\ \hline 1,902139 \\ 2,347828 \\ \hline 0,554811-2 \end{array}$$

$$\begin{array}{r} 0,922922-1 \\ 0,960006-1 \\ \hline 0,477121 \\ 0,371059 \\ 2,584948 \\ \hline 0,786111-3 \end{array}$$

$$980089-1$$

$$12,28$$

$$\begin{array}{r} 12,79 \\ 555 \\ \hline 1,835 \\ 445 \\ \hline 1,2221 \end{array}$$

$$\begin{array}{r} 0,288728 \\ 47015 \\ \hline 68589 \end{array}$$

$$\begin{array}{r} 1,544068 \\ 2,347828 \\ 2,213742 \\ 0,672226 \\ \hline 5,777874 \end{array}$$

MAGYAR TUDOMÁNYOS AKADEMIA KÖNYVTÁRA

$$\begin{array}{r} 1,544068 \\ 2,347828 \\ 2,213742 \\ 0,672226 \\ \hline 5,777874 \\ \hline 0,542069 \\ 0,920012-2 \\ \hline 0,371059 \\ 2,584948 \\ \hline 0,786111-3 \end{array}$$

$$\begin{array}{r} 2,213742 \\ 0,672226-1 \\ \hline 698970 \\ 3,584948 \end{array}$$

$$\begin{array}{r} 0,723743-1 \\ 0,477121 \\ \hline 0,246622-1 \\ 0,120876 \\ \hline 0,120876 \\ 5,777874 \\ \hline 0,246622-1 \end{array}$$

$$W_{11} \cdot 8020' = W_{11} \cdot 8020' - 1$$

$$\begin{array}{r} 6907450 \\ 000000 \\ \hline 1-600000 \\ 1-600000 \end{array}$$

$$M - M = \frac{M}{M}$$

$$\frac{M}{M+M} = \frac{M}{M} \cdot \frac{1}{1+1} = \frac{1}{2}$$

$$M \cdot 2M + 2M \cdot M - M \cdot (1 - 1 + 0,4) = M \cdot (1 - 1 + 0,4)$$

$$M \cdot (M+M) \cdot M = M$$

927292
 1050601
 - 1,977894
 0,643502
 - 2,621396
 1,021192
 1,500203

16707

1600203
 774195
 2274098

9,434724
 226901
 249568
 1,021193

11 0,212768

1,258022
 0,286659
 0,542282
 2,086963
 1,312768
 1,774195
 0,070980 -1
 6,37784 -1
 0,433196 -1

101

264
 64

107 27 74 17

1,829121
 155
 9002
 1274090

128,406

1,618289
 1276281
 250688
 0,091220

6440990
 889052
 0,091220

1529881
 8451120
 4247548
 0,321744
 0,957089

2,0569502
 1,700360
 1,618289
 3,318649
 2,5761952
 0,614752
 0,311706
 2,892191

1,656543
 1529381
 3,185984
 1,170705
 1,035295
 0,979424

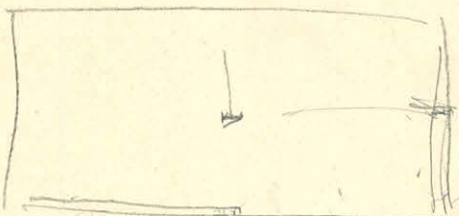
$$\frac{2(c-1)}{15+12-1,2}$$

1146128

$$\frac{1116}{2} \text{ az } \frac{114}{2}$$

$$-2 \frac{2}{3} + 2 \frac{2}{3}$$

$$-2 \frac{2}{3} + 2 \frac{2}{3}$$



$$\overline{dL_1 - dL_2} = -2 \frac{2}{3} + 2 \frac{2}{3}$$

$$dL_2 = +2 \frac{2}{3} + 2 \frac{2}{3}$$

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$$\begin{array}{r} 1673752 \\ 0,836876 \\ \hline 176022 \\ 1013198 \\ \hline 1012291 \end{array}$$

5803,7"

$$\begin{array}{r} 0,205087 \\ 0,573064 \\ \hline 0,778151 \end{array}$$

$$0,176322$$

$$\begin{array}{r} 44 \\ 1745 \\ \hline 0,174555 \end{array}$$

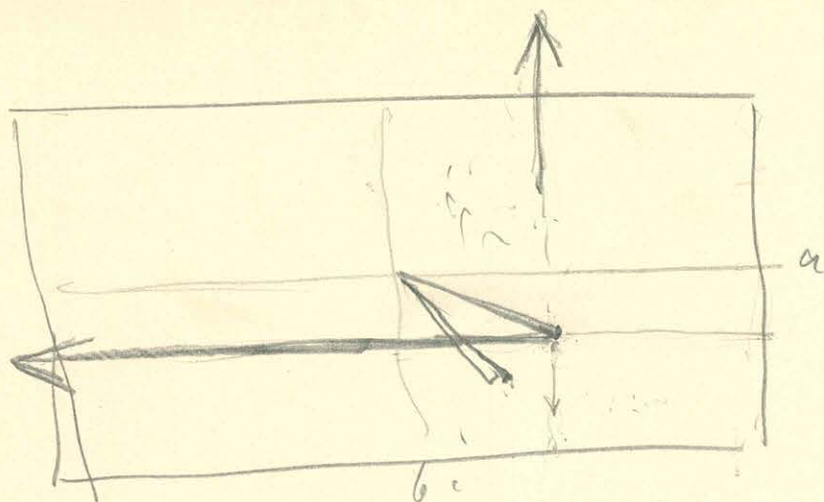
10.619"

$$0,250845-1$$

$$\begin{array}{r} 12177121 \\ 0,727966-1 \\ \hline 0,573064 \\ 0,001000 \end{array}$$

$$dL_1 = -2 \frac{2}{3} - 1 \frac{2}{3}$$

dv. / -1



$$-4bl \cos \varphi \left\{ (b+l \sin \varphi) \left\| \frac{b+l \sin \varphi}{a-l \cos \varphi} \right\| + (b+l \sin \varphi) \left\| \frac{b+l \sin \varphi}{a+l \cos \varphi} \right\| + \right. \\ \left. + (a-l \cos \varphi) \left\| \frac{b+l \sin \varphi}{a-l \cos \varphi} \right\| + (a+l \cos \varphi) \left\| \frac{b+l \sin \varphi}{a+l \cos \varphi} \right\| \right\}$$

4,2498

0,21749
1,450
0,23159

1774195
1600202
0,173992

$$4A_2 = 3,274798$$

$$-8A_4 = 0,173992$$

$$0,843599 \sin \varphi - 0,021749 \sin \varphi \\ \hline 0,836876 \sin \varphi$$

$$1,687199 \sin \varphi -$$

$$(4\varphi - \frac{64}{6}\varphi^2)$$

$$0,842595 (2\varphi + \frac{8}{6}\varphi^2) -$$

2,274396

$$\begin{array}{r} 0,842595 \\ + 1,687199 \\ \hline 2,529794 \end{array}$$

$$\begin{array}{r} 1,687199 \\ + 0,086996 \\ \hline 1,774195 \end{array} \quad \begin{array}{r} - 1,123899 \\ + 0,22199 \\ \hline - 0,901909 \end{array}$$

$$\begin{array}{r} 1,600203 \varphi \\ 1,774195 \end{array} \quad \begin{array}{r} 0,89191 \varphi^2 \\ 1,25579 \varphi^2 \end{array}$$

$$240 \sqrt{26.16 + 100}$$

$$5. (2. + 200)$$

$$240 \sqrt{516}$$

$$600 \quad 3080 \quad 22' 8''$$

$$1,047,198$$

$$99308$$

$$39$$

$$1,056,545$$

$$1,380,211$$

$$1,356,325$$

$$2,736,536$$

$$2,488,551$$

$$1,024,7985$$

$$\begin{array}{r} 26 \\ 16 \\ \hline 156 \\ 26 \\ \hline 416 \\ 616 \end{array}$$

$$2,712,650$$

$$\begin{array}{r} 17 \\ 25 \\ \hline 85 \\ 34 \\ \hline 425 \end{array}$$

$$425.$$

$$3.55 \sqrt{525}$$

$$4.625 = 8504$$

$$b=1 \quad a=20 \quad c=$$

$$0,477,121$$

$$1,359,042$$

$$0,118,078$$

$$1,836,164$$

$$1,698,970$$

$$0,137,194$$

$$53^{\circ} 54' 11''$$

$$925,025$$

$$15,708$$

$$53$$

$$940,786$$

$$35 \sqrt{840}$$

$$6.94 = 56.4$$

$$1,544,068$$

$$1,462,140$$

$$2,006,208$$

$$2,751,279$$

$$0,254,929$$

$$60^{\circ} 55' 34''$$

$$1,047,198$$

$$15,999$$

$$165$$

$$1,063,362$$

$$\begin{array}{r} 27. \\ 25 \\ \hline 940 \end{array}$$

$$c = \frac{a}{2}$$

$$b =$$

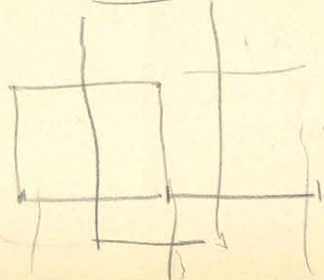
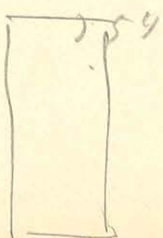
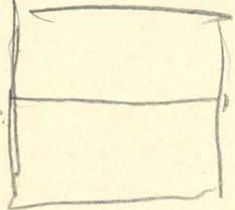
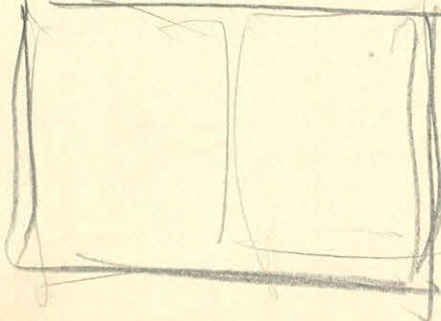
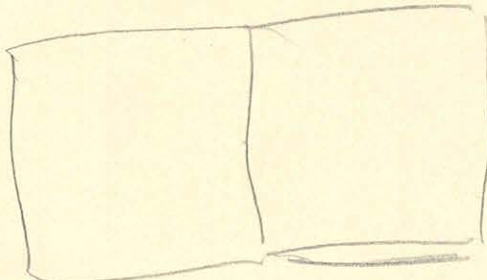
$$a=2 \quad c=1$$

$$\left(\begin{array}{l} c = \frac{1}{2} \\ a = 1 \end{array} \right)$$

$$C = \frac{9}{a-b} = \frac{10}{4} = 2.5$$

$$C = 6$$

$$226/4/1.77$$



$$\frac{\sqrt{5}}{2}$$

$$1) \int_1^1 = \operatorname{arsh} \frac{1}{\sqrt{3}} = 20^\circ = 0,523599$$

$$2) \int_3^1 = \operatorname{arsh} \frac{3}{\sqrt{11}} = 0,735212 \quad 9) \frac{\Pi_1^3 - \Pi_1^1}{\sqrt{2}} = \frac{\sqrt{10}}{1 + \sqrt{11}} = 0,347297$$

$$3) \int_1^0 = \operatorname{arsh} \frac{1}{3\sqrt{11}} = 0,100168 \quad 10) \frac{\Pi_2^2 - \Pi_2^0}{2} = \frac{\sqrt{8}}{1 + 3} = 0,104629$$

$$4) \int_1^1 = \frac{\pi}{2} = 1,570796 \quad 11) \frac{\Pi_1^3 - \Pi_1^1}{\sqrt{2}} = \frac{\sqrt{10}}{1 + \sqrt{11}} = 0,347297$$

$$5) \int_1^0 = 0 = 0 \quad 12) \frac{\Pi_2^2 - \Pi_2^0}{1} = \frac{\sqrt{5}}{2 + 3} = 0,608917$$

$$6) \int_1^2 = \frac{1}{3} = 0,333333$$

$$\sqrt{11} = 3,31662$$

$$\sqrt{5} = 2,23607$$

$$\sqrt{5} = 1,73205$$

$$7) \int_1^2 = \frac{1}{3} = 0,333333$$

$$8) \int_1^0 = \frac{\pi}{2} = 1,570796$$

$$\begin{array}{r} 2) \\ 0,477121 \\ 0,520697 \\ \hline 0,956424 - 1 \\ 42^\circ 7' 49'' \end{array}$$

$$\begin{array}{r} 722028 \\ 2026 \\ 238 \\ \hline 735012 \end{array}$$

$$0,500000$$

$$\begin{array}{r} 0,549485 \\ 0,450489 \\ \hline 0,785974 \\ 0,625145 \\ \hline 0,150829 \end{array}$$

$$\begin{array}{r} 0,178485 - 1 \\ 627784 - 1 \\ \hline 0,540704 - 1 \end{array}$$

$$\begin{array}{r} 2) \\ 477121 \\ 520697 \\ \hline 0,997818 \\ 0,002182 - 1 \\ 5044' 21'' \\ 0,087267 \\ 12799 \\ 102 \\ \hline 0,100168 \end{array}$$

$$\begin{array}{r} 0,150515 \\ 0,510018 \\ \hline 0,660533 \\ 602060 \\ \hline 0,058473 \\ 0,766955 - 2 \\ 627784 - 1 \\ \hline 0,129171 - 1 \end{array}$$

$$\begin{array}{r} 6 = 7 \\ 0,522879 - 1 \\ 18^\circ 26' 6'' \\ 314159 \\ 7565 \\ 29 \\ \hline 521751 \end{array}$$

$$\begin{array}{r} 648470 \\ 349485 \\ \hline 238561 \\ 1,933836 \\ 0,966918 \\ \hline 1 = 0 \end{array}$$

$$\begin{array}{r} 626960 \\ 349485 \\ \hline 0,277478 \\ 0,442228 - 1 \\ 627784 - 1 \\ \hline 0,805444 - 1 \\ 628917 \end{array}$$

$$\begin{array}{r} 0,523599 \\ 0,735212 \\ 1,570796 \\ \hline 2,829707 \\ 995052 \\ \hline \log 1,834655 \\ 46 \end{array}$$

$$\begin{array}{r} 1,824602 \\ 1,047137 \\ \hline 787412 \end{array}$$

$$\begin{array}{r} 0,643502 \\ 0,269278 \\ 0,808917 \\ \hline 1,721751 \\ 221751 \\ \hline 1,429944 \text{ trans} \end{array}$$

$$\begin{array}{r} 0,643502 \\ 0,269278 \\ 0,638917 \\ \hline 1,551697 \\ 221751 \\ \hline 1,229946 \text{ trans } 10 \\ 787412 \\ \hline 2,017358 \end{array}$$

$$1) \frac{1}{1,5} = \frac{1,5}{\sqrt{4,25}} = 0,629012$$

$$2) \frac{1}{2,5} = \frac{2,5}{\sqrt{8,25}} = 0,716211$$

$$3) \frac{1}{3,5} = \frac{1}{2,5\sqrt{8,25}} = 0,108271$$

$$4) \frac{1}{4,5} = \frac{1}{1,5\sqrt{4,25}} = 0,212768$$

$$5) \frac{1}{5,5} = \frac{1}{4\sqrt{5,25}} = 0,108680$$

$$6) \frac{1}{6,5} = \frac{1,5}{2\sqrt{7,25}} = 0,271655$$

$$7) \frac{1}{7,5} = \frac{2}{1,5\sqrt{7,25}} = 0,459793$$

$$8) \frac{1}{8,5} = \frac{4}{\sqrt{5,25}} = 1,050601$$

$$9 = \frac{\sqrt{7,25}}{\sqrt{3,25}} \frac{1 + \sqrt{4,25}}{1 + \sqrt{8,25}} = 0,189287$$

$$10 = \frac{\sqrt{6,25} - 1 + \sqrt{5,25}}{\sqrt{4,25} - 1 + \sqrt{7,25}} = 0,077784$$

$$11 = \frac{\sqrt{7,25}}{\sqrt{3,25}} \frac{1 + \sqrt{4,25}}{1 + \sqrt{8,25}} = 0,018928$$

$$12 = \frac{\sqrt{3,25}}{\sqrt{1,25}} \frac{2 + \sqrt{5,25}}{2 + \sqrt{7,25}} = 0,988062$$

$$\sqrt{4,25} = 2,06156$$

$$\sqrt{5,25} = 2,29129$$

$$\sqrt{7,25} = 2,69258$$

$$\sqrt{8,25} = 2,87228$$

MAGYAR
TUDOMÁNYOS AKADEMIA
KÖNYVTÁRA

$$\begin{array}{r} 0,176091 \\ 314195 \\ \hline 0,861896 - 1 \\ 36^\circ 21' 22'' \\ 0,628219 \\ 582 \\ 111 \\ \hline 629012 \end{array}$$

$$\begin{array}{r} 0,397940 \\ 458237 \\ \hline 0,939713 - 1 \\ 41^\circ 21' 9'' \\ 715585 \\ 582 \\ 44 \\ \hline 716211 \end{array}$$

$$\begin{array}{r} 0,000000 \\ 458237 \\ \hline 55^\circ 05' 17'' - 1 \\ 397940 \\ 0,143833 - 1 \\ 122173 \\ 15923 \\ 299 \\ \hline 108371 \end{array}$$

$$\begin{array}{r} 0,000000 \\ 0,214195 \\ \hline 0,685805 - 1 \\ 176091 \\ 0,509714 - 1 \\ 17^\circ 55' 13'' \\ 296706 \\ 15999 \\ 63 \\ \hline 312768 \end{array}$$

$$\begin{array}{r} 0,000000 \\ 0,360080 \\ \hline 0,609920 - 1 \\ 602060 \\ 0,037860 - 1 \\ 6^\circ 13' 37'' \\ 104720 \\ 3781 \\ 179 \\ \hline 108680 \end{array}$$

$$\begin{array}{r} 0,176091 \\ 0,400169 \\ \hline 0,745922 - 1 \\ 301020 \\ 0,444892 - 1 \\ 15^\circ 20' 55'' \\ 261799 \\ 9599 \\ 257 \\ \hline 271655 \end{array}$$

$$\begin{array}{r} 0,301020 \\ 0,400169 \\ \hline 0,870861 - 1 \\ 176091 \\ 0,694770 - 1 \\ 26^\circ 20' 29'' \\ 452786 \\ 5818 \\ 189 \\ \hline 459793 \end{array}$$

$$\begin{array}{r} 0,602060 \\ 0,360080 \\ \hline 0,241980 \\ 60^\circ 11' 42'' \\ 1,047198 \\ 3200 \\ 200 \\ \hline 1050601 \end{array}$$

$$\begin{array}{r} 0,400169 \\ 485942 \\ \hline 0,916111 \\ 255942 \\ \hline 0,660169 \\ 0,587967 \\ \hline 0,082202 \\ 0,914882 - 2 \\ 637784 \\ \hline 277098 - 1 \end{array}$$

$$\begin{array}{r} 0,397940 \\ 0,517266 \\ \hline 0,915306 \\ 0,214195 \\ \hline 0,601111 \\ 0,567220 \\ \hline 0,033891 \\ 0,528672 \\ 627784 \\ \hline 0,890889 - 2 \end{array}$$

$$\begin{array}{r} 0,255942 \\ 0,622588 \\ \hline 0,888530 \\ 0,048455 \\ \hline 0,840075 \\ 0,671412 \\ \hline 0,168663 \\ 0,227020 - 1 \\ 627784 \\ \hline 0,589236 - 1 \end{array}$$

$$N S^2 + \frac{1}{2}(1+x)(4x^3 - 6x^2 + 4x - 2)N - (1+x)S^2(4x^3 - 2x^2 + 2x - 1)$$

$$x^8 - 2x^7 + 2x^6 - 2x^5 + x^4(1+q^2)$$

$$- x^7 + 2x^6 - 2x^5 + 2x^4 - x^3(1+q^2)$$

$$+ x^6 - 2x^5 + 2x^4 - 2x^3 + x^2(1+q^2)$$

$$- x^5 + 2x^4 - 2x^3 + 2x^2 - x(1+q^2)$$

$$-x^8 + x^7 + 2x^6 - 5x^5 + (8-3q^2)x^4 - 9x^3 + 6x^2 - (3+2q^2)x + (1+q^2) = 0$$

$$N S^2 = x^8 - 3x^7 + 5x^6 - 7x^5 + (7+q^2)x^4 - (5+q^2)x^3 + (3+q^2)x^2 - (1+q^2)x$$

$$2x^4 - 3x^3 + 2x^2 - x + 2x^3 - 3x^2 + 2x - 1 = (2x^4 - x^3 - x^2 + x - 1)$$

$$2x^8 - 2x^7 + 2x^6 - 2x^5 - x^7 + x^6 - x^5 + x^4$$

$$- x^6 + x^5 - x^4 + x^3$$

$$+ x^5 - x^4 + x^3 - x^2$$

$$- x^4 + x^3 - x^2 + x$$

$$4x^4 - 3x^3 + 2x^2 - x$$

$$4x^3 - 3x^2 + 2x - 1$$

$$4x^4 + x^3 - x^2 + x - 1$$

$$II = 2x^8 - 3x^7 + 2x^6 - x^5 - 2x^4 + 2x^3 - 2x^2 + x$$

$$4x^8 - 8x^7 + 8x^6 - 8x^5 + 4(1+q^2)x^4$$

$$+ x^7 - 2x^6 + 2x^5 - 2x^4$$

$$- x^6 + 2x^5 - 2x^4$$

$$+ x^5 - 2x^4$$

$$- x^4$$

$$+ (1+q^2)x^3$$

$$+ 2x^3 + (1+q^2)x^2$$

$$+ 2x^3 - 2x^2 + (1+q^2)x$$

$$+ 2x^3 - 2x^2 + 2x + \frac{1}{2}$$

$$III = 4x^8 - 7x^7 + 5x^6 - 3x^5 + (4q^2 - 3)x^4 + (7+q^2)x^3 - (5+q^2)x^2 + (3+q^2)x - (1+q^2)$$

1089.

~~4. 11.89~~

$$4. 9.89 \sqrt{11.89. 5.29 + 16}$$

$$3.3. (11.89. 5.29 + 22)$$

$$29.56 \sqrt{78.8981}$$

$$313.1627.$$

$$1.577256$$

$$0.948500$$

$$0.648723$$

$$2.545789$$

$$1.495771$$

$$0.050018$$

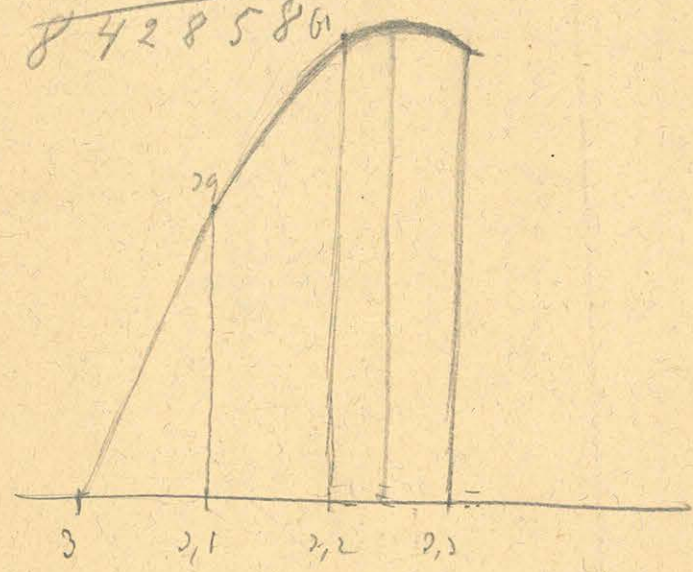
$$48^{\circ} 17' 22''$$

$$8077580$$

$$4945$$

$$155$$

$$8428586$$



$$C = \frac{2}{3}$$

$$A = 1$$

$$\delta = \frac{1}{2}$$

$$\begin{array}{r} 1170645 \\ 1172359 \\ 31430054 \end{array}$$

$$1189$$

$$4761$$

$$4232$$

$$529$$

$$529$$

$$62,8981$$

$$94,8981$$

$$2846943$$

$$2846943$$

$$313,16375$$

$$\begin{array}{r} 1012198 \\ 1168992 \\ 0762542 \\ 2994732 \\ 1228277 \end{array}$$

$$\begin{array}{r} 0,584160 \\ 428454 \\ 225663 \\ 1238277 \end{array}$$

$$0,199096$$

$$0,402055$$

$$\begin{array}{r} 1529366 \\ 597288 \\ 2126654 \\ 402055 \\ 1723600 \end{array}$$

6

8/68
16,52

-0,403055

1,529966
597288
2,126654
403055

1,723599 *long*706455 *long*3,430054 *long*

6,98970

0,698970
0,675930
~~0,023040~~
1,374900
0,556972
0,817928
0,785260
0,032668
0,514120
637784
876339 -2

6,999,02

584160
142818
75221
0,802199
2,944702
802199
2,142533
1472691
3,615224

0,584160
428454
225663
1238277

9,199096

2,944702
1208277
1,706455 *long*

3,6841
3,69464

2,61

$$\frac{4.8,61 \sqrt{10,61 \cdot 4,41 + 16}}{3,1(10,61 \cdot 4,41 + 32)}$$

$$\frac{34,44 \sqrt{62,7901}}{244,24921}$$

$$\begin{array}{r} 1,527063 \\ 898945 \\ \hline 2,436008 \\ 2,387874 \\ \hline 0,048174 \\ 48^{\circ}10'17'' \end{array}$$

$$\begin{array}{r} 0,837758 \\ 21909 \\ 82 \\ \hline 0,840749 \end{array}$$

MASTAR
TUBONKAYOS AKADHAMA
KONVYTERA

3,2 re

10,24.

$$\frac{4.9,24 \sqrt{11,24 \cdot 4,84 + 16}}{3,2(11,24 \cdot 4,84 + 32)}$$

$$\frac{36,96 \sqrt{70,4016}}{225,285}$$

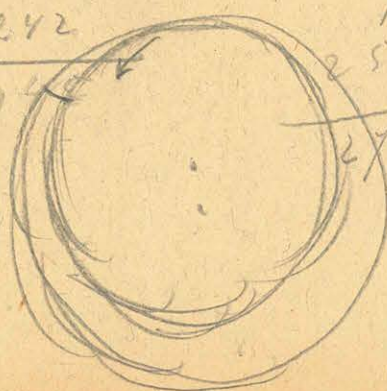
$$\begin{array}{r} 1,567722 \\ 924038 \\ \hline 2,491770 \\ 352772 \\ \hline 0,139037 \end{array}$$

$$\begin{array}{r} 2,491770 \\ 441672 \\ \hline 0,050098 \end{array}$$

48°17'50"

$$\begin{array}{r} 827758 \\ 4945 \\ 242 \end{array}$$

$$842944$$



$$\begin{array}{r} 21 \\ 21 \\ 21 \\ 42 \\ 42 \end{array}$$

$$\begin{array}{r} 10,61 \\ 4,41 \\ \hline 10,61 \\ 4,244 \\ 4,244 \\ \hline 46,7901 \end{array}$$

$$\begin{array}{r} 78,7901 \\ 2363703 \\ \hline 244,24921 \end{array}$$

$$\begin{array}{r} 02 \\ 22 \\ 64 \\ 96 \\ \hline 10,242 \\ 22 \\ 44 \\ \hline 4,84 \end{array}$$

484

$$\begin{array}{r} 1124 \\ 484 \end{array}$$

$$\begin{array}{r} 22 \\ 22 \\ 44 \\ 44 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 4496 \\ 8992 \\ \hline 4496 \\ 54,4016 \end{array}$$

$$\begin{array}{r} 70,4016 \\ 22 \end{array}$$

$$\begin{array}{r} 1408032 \\ 2112048 \\ \hline 225,28512 \end{array}$$

$$\begin{array}{r} 86,4016 \\ 22 \end{array}$$

$$\begin{array}{r} 1728032 \\ 2592048 \\ \hline 276,48512 \end{array}$$

$$\frac{\frac{c}{\sqrt{a^2+b^2+c^2}} \left(\frac{a}{b} - \frac{b}{a} \right)}{1 + \frac{a^2}{a^2+b^2+c^2}} = \frac{c \sqrt{a^2+b^2+c^2} \left(\frac{a}{b} - \frac{b}{a} \right)}{a^2+b^2+2c^2} \quad c = \frac{g}{4-b}$$

17

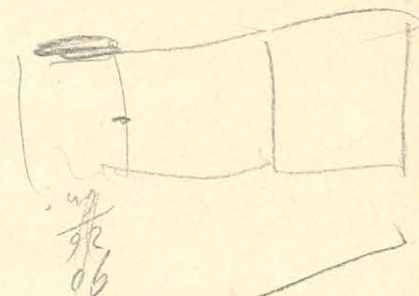
$$\frac{g \sqrt{a^2+b^2 + \frac{g^2}{(a-b)^2} \left(\frac{a^2-b^2}{ab} \right)}}{(a-b)(a^2+b^2 + 2 \frac{g^2}{(a-b)^2})}$$

$$\frac{g \sqrt{(a^2+b^2)(a-b)^2 + g^2 \left(\frac{a^2-b^2}{ab} \right)}}{(a-b)(a^2+b^2 + 2 \frac{g^2}{(a-b)^2})} ab$$

$$\frac{\frac{g}{2} \sqrt{(x^2+1)(x-1)^2 + \frac{g^2}{64} (x^2-1)}}{((x-1)^2(x^2+1) + 2 \frac{g^2}{64})x}$$

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$$\begin{array}{r} 0426 \\ 018 \\ \hline 242 \\ 242 \\ \hline 0 \\ 242 \\ 242 \\ \hline 0 \end{array}$$



$$\begin{array}{r} 10000000 \\ 500000 \\ 900 \\ 9 \\ 35 \end{array}$$

$$\begin{array}{r} 2110 \\ 6690 \\ \hline 454 + \\ 851 + \\ 1817 + \end{array}$$

$$\begin{array}{r} 1021264 \\ 1051 - \\ 243 - \\ 3240 - \\ 1215 - \\ 6561 - \end{array}$$

$$0 = 1 + x^2 - 35x + 17 = 0 \quad x = x$$

$$\begin{array}{r} 927294 \\ 221751 \\ \hline 605543 \\ 1,211086 \end{array}$$

$$\begin{array}{r} 0,684717 \\ 1,013198 \\ 684717 \\ \hline 2,382632 \\ 1,1397908 \\ \hline 0,984724 \text{ ~~high~~ } \end{array}$$

$$\begin{array}{r} 0,556972 \\ 0527755 \\ \hline 1,094727 \\ 1,025417 \\ \hline 0,669310 \end{array}$$

$$\begin{array}{r} 0,840796 - 2 \\ 627784 - 1 \\ \hline 0,203612 - 1 \end{array}$$

$$\begin{array}{r} 0,528966 \\ 549758 \\ 319184 \\ \hline 1,397908 \end{array}$$

$$\begin{array}{r} 1,047198 \\ 891582 \\ \hline 1,938770 \\ 523599 \\ \hline 1,415171 \\ 1,984724 \\ \hline 2,399895 \end{array}$$

$$\begin{array}{r} 251375 \\ 13291 \\ \hline 264686 \end{array}$$

$$1678034$$

$$41009818$$

$$\begin{array}{r} 159951 \\ 820205 \\ 16581 \end{array}$$

$$470574$$

$$0614400$$

$$\begin{array}{r} 1421564 \\ 1519111 \\ \hline 1604094 \\ 0602060 \end{array}$$

$$1806090$$

$$29601$$

$$628219$$

$$06027$$

$$925025$$

$$158054$$

$$1-6501280$$

$$\begin{array}{r} 1568202 \\ 1439261 \\ \hline 011199 \\ 1518751 \end{array}$$

$$47056152$$

$$6011109$$

$$\begin{array}{r} 121 \\ 82726 \\ 822852 \end{array}$$

$$4600022$$

$$0022206$$

$$2028950$$

$$\begin{array}{r} 1591065 \\ 446111 \\ 1217121 \end{array}$$

$$37$$

$$69116$$

$$183$$

$$151164$$

$$4.185$$

$$601164$$

$$22$$

$$2516$$

$$108$$

$$16152$$

$$3(72$$

$$32156$$

$$37$$

$$6121$$

$$2(5+2$$

$$12121$$

$$x=2$$

$$3$$

$$4$$

0,166400
2,213742
0,672256-1

2,052408

0,166400
0,670004
2,178396

1,984830

3 1,778795
2,213742

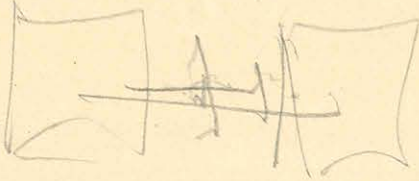
3,991937
0,672256-1
0,002645

3,666818

15
9

112,823
96,567

16,256

9816,05
2,401
27377


4642,21
16,26

4659,47

1,778795
2,213742

3,991937
0,670602

3,668539

0,380392
1,082682

1,464074
1,082682

2,547756
0,410254-1

1,958010

3,668727
3,991937

0,676400-1

~~462875~~
47468

4661,65 + 90,78

9816,05 + ~~29,122~~

161,208
46735

20794

90,78
9816,05
25258

10169,03

4661,65
90,78

4752,43

475,242

10169

174467
46725

127732

1628

217928
106300

211628

2,676916
3,007278

0,669638

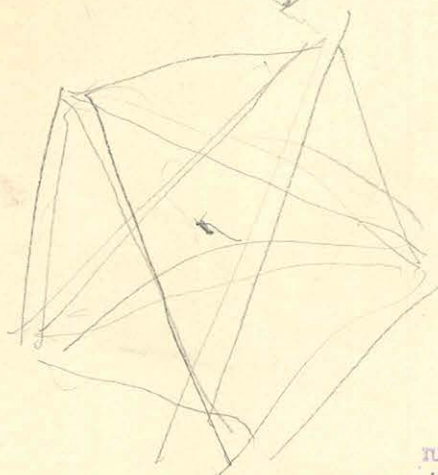
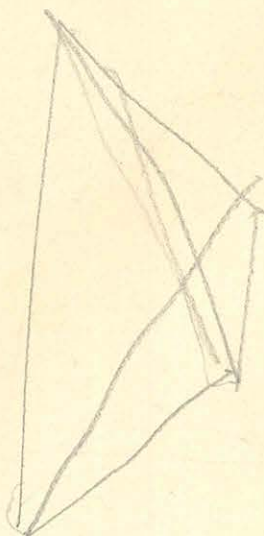
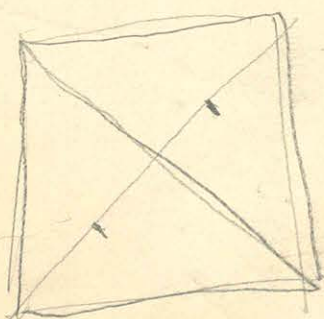
$$\begin{array}{r} 1,0792 \\ 2,4540 \\ \hline 0,0252-2 \end{array}$$

$$\begin{array}{r} 0,3610 + 0,4314 \\ 2,5478 \quad 2,5611 \\ \hline 0,7532-3 \quad 0,8703-2 \end{array}$$

$$\begin{array}{r} 0,1461-3 \\ 2,4540 \\ \hline 0,6921-6 \end{array}$$

$$\begin{array}{r} 0,0792-3 \\ 2,5478 \\ \hline 0,5314-6 \end{array}$$

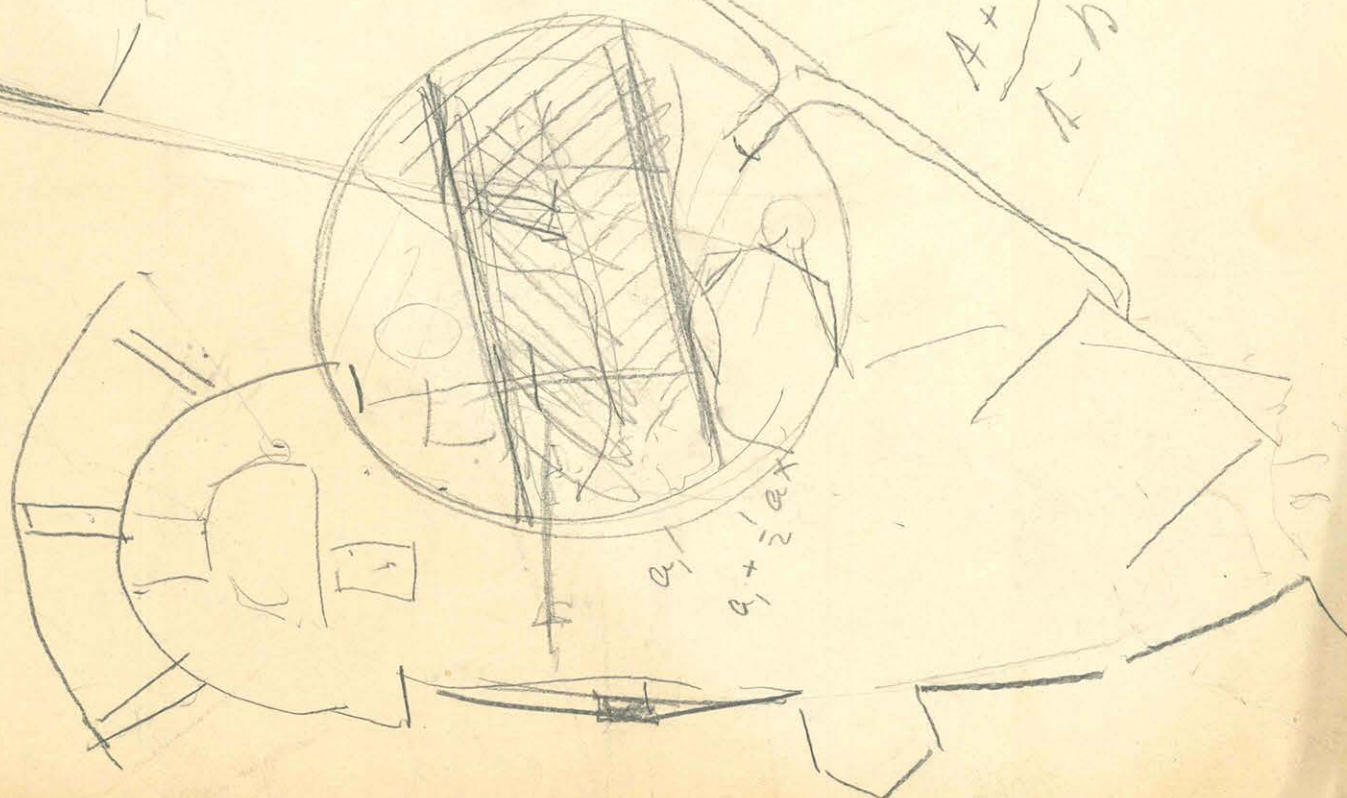
$$\begin{array}{r} 0,3979-3 \\ 2,5611 \\ \hline 0,8368-6 \end{array}$$



$$\frac{14-10}{25}$$

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$$\begin{aligned} A &= ax_1 + ay_1^2 + by_1 + cy_1^2 + dx_1y_1 \\ B &= ax_2 + ay_2^2 + by_2 + cy_2^2 + dx_2y_2 \\ A+B &= a(x_1+x_2) + a(x_1^2+x_2^2) + d(x_1-x_2)y_1 \\ A-B &= a(x_1-x_2) + a(x_1^2-x_2^2) + d(x_1+x_2)y_1 \end{aligned}$$



$$V = \sqrt{a^2x^2 + b^2y^2}$$

$$V = \sqrt{a^2x^2 + b^2y^2 + c^2xy}$$

$$V = \sqrt{a_1x + a_2x^2 + b_1y + b_2y^2 + cxy}$$

$$V' = a_1 + 2a_2x$$

$$V = \sqrt{a_0 + a_1x + a_2x^2 + b_1y + b_2y^2 + cxy}$$

$$V' = a_1 + 2a_2x + b_1 + 2b_2y + c$$

$$a - \frac{c}{2} = b$$

$$a - \frac{c}{2} = b$$

$$a - \frac{c}{2} = b$$

Handwritten signature or scribble.

$$a - \frac{c}{2} = b$$

$$\frac{1}{25} \frac{1}{25}$$

$$q = ac - bc$$

$$\frac{1 - \frac{q}{ac} \sqrt{\frac{c^2}{a^2} + 1} + (ac - q)}{1}$$

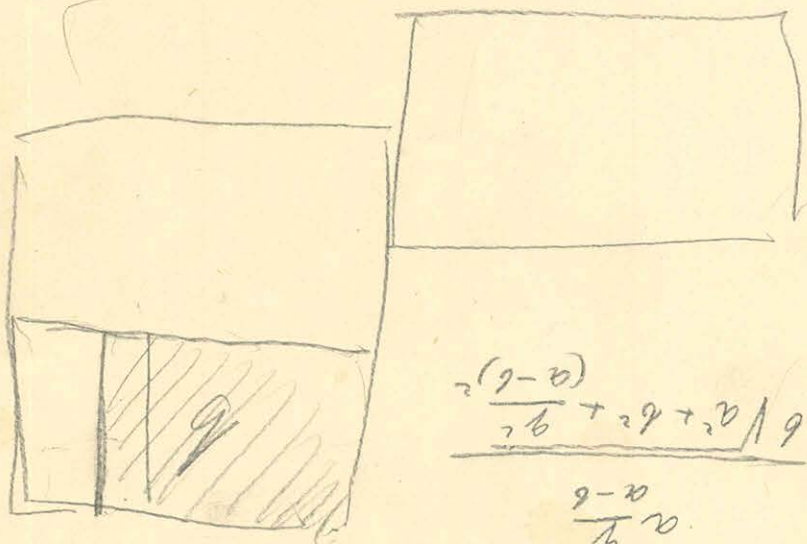
$$\frac{(ac - q) \sqrt{\frac{c^2}{a^2} + 1} + (ac - q)^2}{ac^2}$$

$$\frac{ac - q \sqrt{\frac{c^2}{a^2} + 1} + (ac - q)^2}{ac}$$

$$\frac{1}{50}$$

$$9x^2$$

$$\frac{b \sqrt{a^2 + b^2} (a - b)^2 + q^2}{a^2}$$



$$\frac{b \sqrt{a^2 + b^2} + \frac{q^2}{a - b}}{a - b}$$

Find

$$(a - 1) \frac{a}{2} = 10 \quad a = 5$$

$$a^2 - a = 20$$

$$a = \frac{1}{2} + \sqrt{\frac{1}{4} + 20}$$

Ad 1) Ichalo: no change

of the person and a good character a very full list of references.

Enoch wird selbst weg

Testated my father today Aug 21/90

Euc. tenuis *Syridendrocy*

My love to you

• Magnificat adagio 1^{mo}

20 m

The number of legs { 3 in spider, centipede
2 in yellow.

Apr 20 approx. 2000

Indubitably a first

25 Nov

Maggen agde is erorden min ude linterlent 2

lymph. phagocytosis 7

~~Angus + John~~

Myself. 1000

2 ✓

Les' es' cradum 2 con 2 fides

Phyllopora pinnatifida ?

lazik 2

2.

1032

редакция 21

$$\frac{c \sqrt{a^2+b^2+c^2} \left(\frac{a}{b} - \frac{b}{a} \right)}{1 + \frac{abc^2}{ab(a^2+b^2+c^2)}} \parallel$$

$$\frac{abc \sqrt{a^2+b^2+c^2} \left(\frac{a}{b} - \frac{b}{a} \right)}{a^2+b^2+c^2}$$

$$\frac{c \sqrt{a^2+b^2+c^2} \left(\frac{a}{b} - \frac{b}{a} \right)}{a^2+b^2}$$

$$\left(\frac{a}{b} - \frac{b}{a} \right) = \frac{1}{b^2 a} (abc - b^3 x)$$

$$\frac{q \sqrt{a^2+b^2+\frac{q^2}{(a-b)^2}} \frac{a+b}{ab}}{a^2+b^2}$$

$$\frac{ca(1-\frac{b}{a})}{cb(\frac{a}{b}-1)} = q$$

$$\cancel{b^2 x} \rightarrow b^2 x$$

$$-1-b^2$$

$$\frac{q \sqrt{(a^2+b^2)(a^2+b^2-2ab)} + q^2(a+b)}{ab(a-b)(a^2+b^2)}$$

$$\frac{\frac{q}{b^2} \sqrt{\left(\frac{a^2}{b^2} + 1 \right) \left(\frac{a^2}{b^2} + 1 - 2 \frac{a}{b} \right)} + \frac{q^2}{b^2} \left(1 + \frac{a}{b} \right)}{\frac{a}{b} \left(\frac{a}{b} - 1 \right) \left(\frac{a^2}{b^2} + 1 \right)}$$

$$\frac{q \sqrt{x^2+1} (x^2+1-2x) + q^2(1+x)}{x(x-1)(x^2+1)}$$

$$= \frac{q(1+x) \sqrt{x^4-2x^3+2x^2-2x+1} + q^2 x}{x^4-x^3+x^2-x}$$

$$\frac{g}{x} + \frac{(1+x)}{x^2} \frac{1}{2g} (4x^3-6x^2+4x-2) - \frac{(1+x)g}{x^2} (4x^3-3x^2+2x-1)$$

$$\frac{\frac{q}{a-b} \sqrt{a^2+b^2+\frac{q^2}{(a-b)^2}} \left(\frac{a^2-b^2}{ab} \right)}{a^2+b^2+2\frac{q^2}{(a-b)^2}}$$

$$\frac{q(a-b) \sqrt{a^2+b^2+\frac{q^2}{(a-b)^2}} \left(\frac{a^2-b^2}{ab} \right)}{(a^2+b^2)(a-b)^2+2q^2} = \frac{q(a^2-b^2) \sqrt{(a^2+b^2)(a-b)^2+q^2}}{ab \{ (a^2+b^2)(a-b)^2+2q^2 \}}$$

MAVIAK
KONYILARA
KURUMU
KONYILARA

$$-9 \cos^2 \varphi \cos^2 \varphi - \frac{9}{2} \sin^2 2\varphi$$

$$- (\cos^2 \varphi - \sin^2 \varphi) \cos^2 \varphi - 2 \sin^2 \varphi \cos^2 \varphi$$

$$- \cos^4 \varphi - \sin^2 \varphi \cos^2 \varphi$$

$$\left(3 \frac{\mu l}{r^4} \sin \varphi_0 \sin \varphi_\tau - 3 \left\{ \begin{array}{c} - \\ - \\ - \end{array} \right\} \sin \right) 3 \cos^2 \varphi + \cos^2 \varphi +$$

$$\left(\right) \sin^2 \varphi = - \frac{\mu}{r^3} \sin \varphi_\tau \cos \varphi + \left\{ \right\} \cos^2 \varphi + \left\{ \right\} \sin^2 \varphi$$

$$3 \sin^2 \varphi \cos^2 \varphi - 2 \cos^2 \varphi \sin^2 \varphi$$

$$- X$$

$$3 X \cos^2 \varphi + 2 \sin^2 \varphi = -3 \frac{\mu}{r^3} \sin \varphi_\tau \cos^3 \varphi - 6 \frac{\mu l}{r^4} \sin \varphi_0 \sin \varphi_\tau \sin^2 \varphi$$

$$- \frac{2\mu}{r^3} \sin \varphi_\tau \sin \varphi \sin^2 \varphi + 3 \frac{\mu l}{r^4} \cos \varphi_0 \cos \varphi_\tau \cos(\varphi_0 - \varphi_\tau) \sin^2 \varphi$$

$$+ \left\{ - \frac{\mu}{r^3} \cos \varphi_\tau \sin \varphi_\tau \sin \varphi \cos^2 \varphi - 9 \frac{\mu l}{r^4} \sin \varphi_0 \cos \varphi_\tau \sin \varphi_\tau \cos^2 \varphi - 9 \frac{\mu l}{r^4} \cos \varphi_0 \sin \varphi_\tau \sin \varphi_\tau \cos^2 \varphi \right\}$$

$$+ \left\{ - \frac{\mu}{r^3} \cos \varphi_\tau \cos \varphi_\tau \sin \varphi \cos^2 \varphi - 9 \frac{\mu l}{r^4} \sin \varphi_0 \cos \varphi_\tau \cos \varphi_\tau \cos^2 \varphi - 9 \frac{\mu l}{r^4} \cos \varphi_0 \sin \varphi_\tau \cos \varphi_\tau \cos^2 \varphi \right\}$$

Bezeichnung

die ungelöste 0 ist zu j.

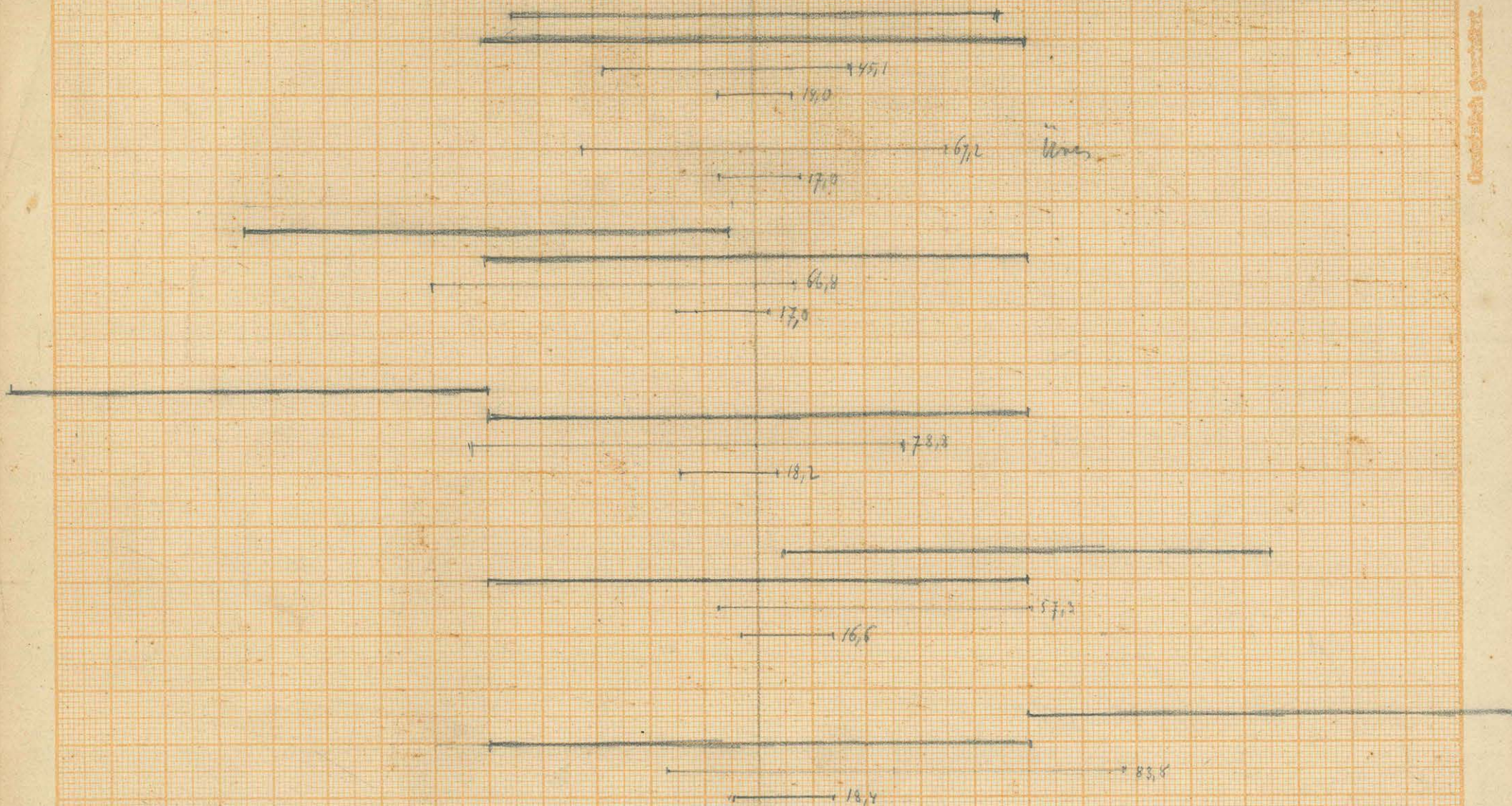
$$\left\{ 3 \cos^2 \varphi \right\} X + \left\{ \sin^2 \varphi \right\} Z = -3 n \frac{\mu}{r^3} \sin \varphi_\tau \cos^3 \varphi - 6 n \frac{\mu l}{r^4} \sin \varphi_\tau \sin \varphi_0 \sin^2 \varphi$$

$$- n \frac{\mu}{r^3} \sin \varphi_\tau \sin \varphi \sin^2 \varphi + 3 n \frac{\mu l}{r^4} \cos \varphi_0 \cos \varphi_\tau \cos(\varphi_0 - \varphi_\tau) \sin^2 \varphi$$

January 4 7.12-44 (Exhibits) Kungah
 - January 6 7.12 2002

rough.

150
 144

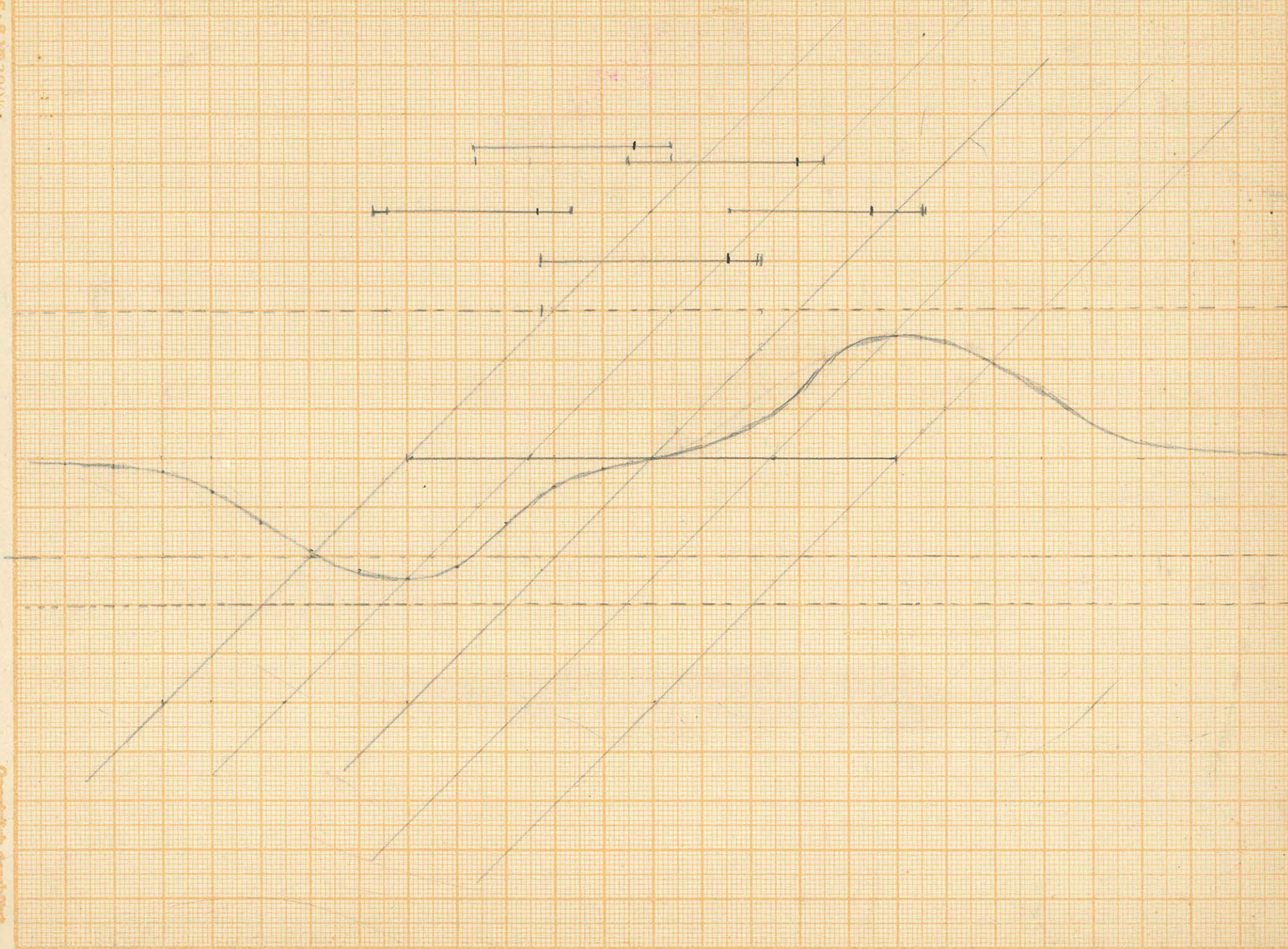


Unpublished document

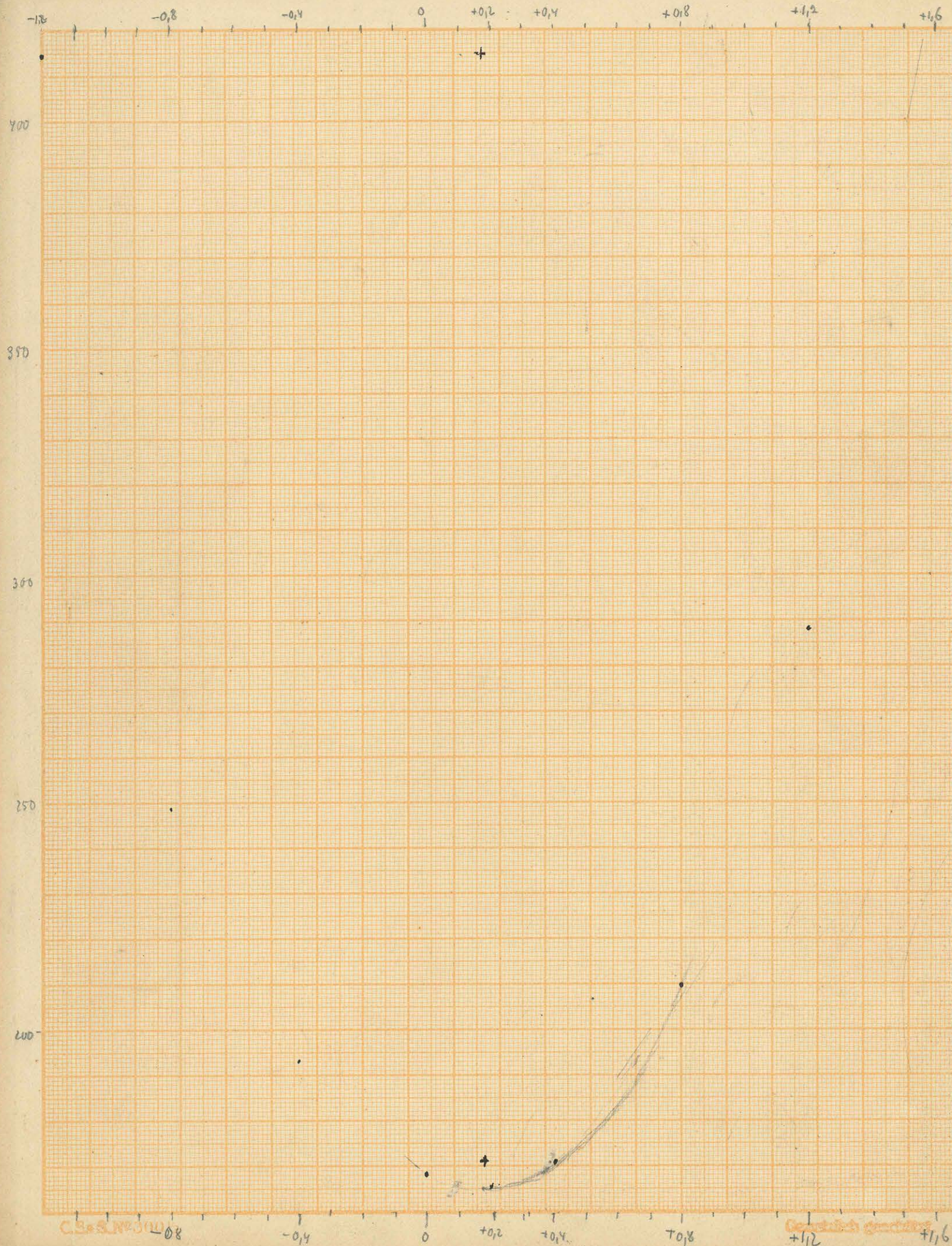
C. 5. 3. 1. 300 1/2

CSA 5.10 300 1/2

Geometric Factor

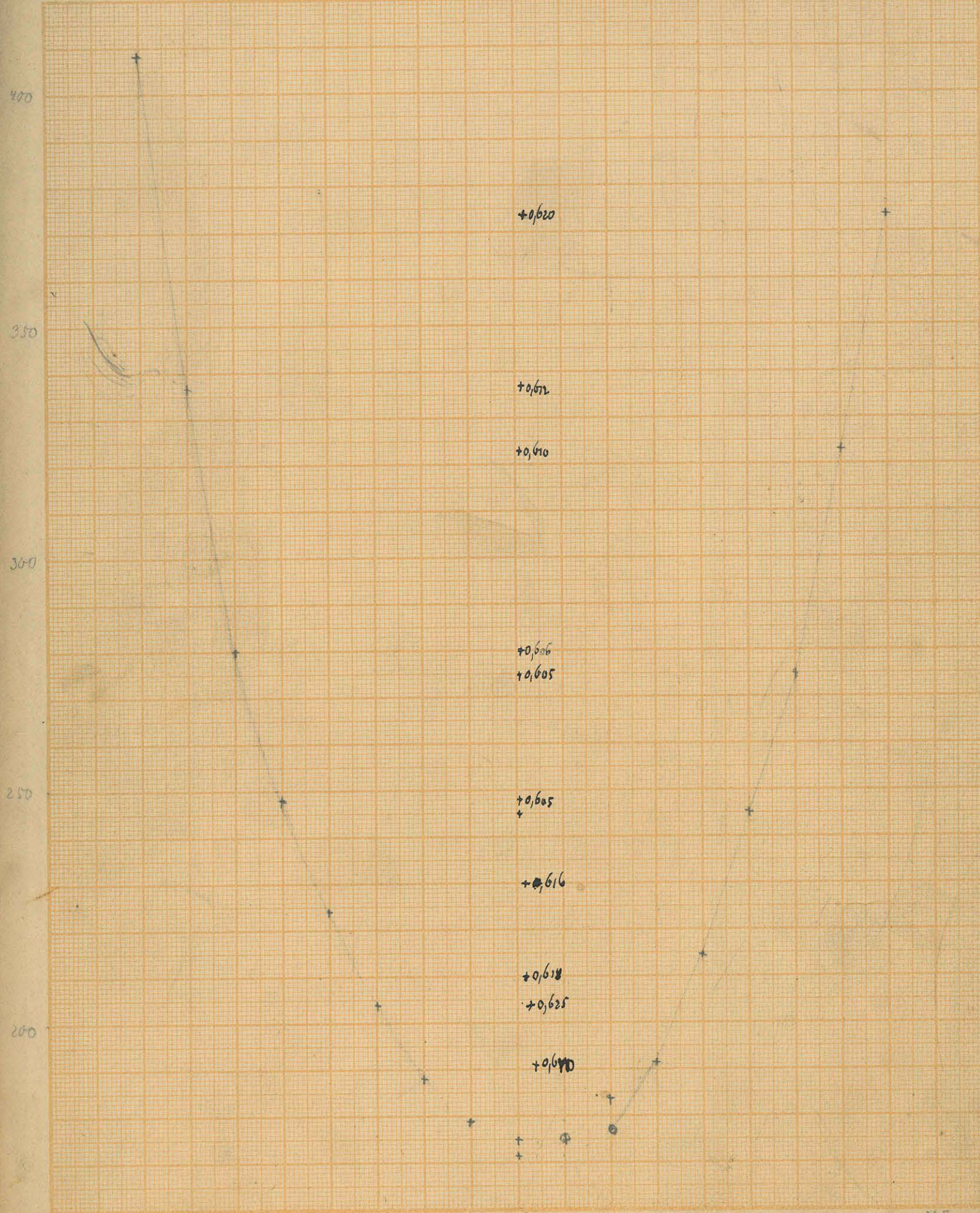


Maximum 26

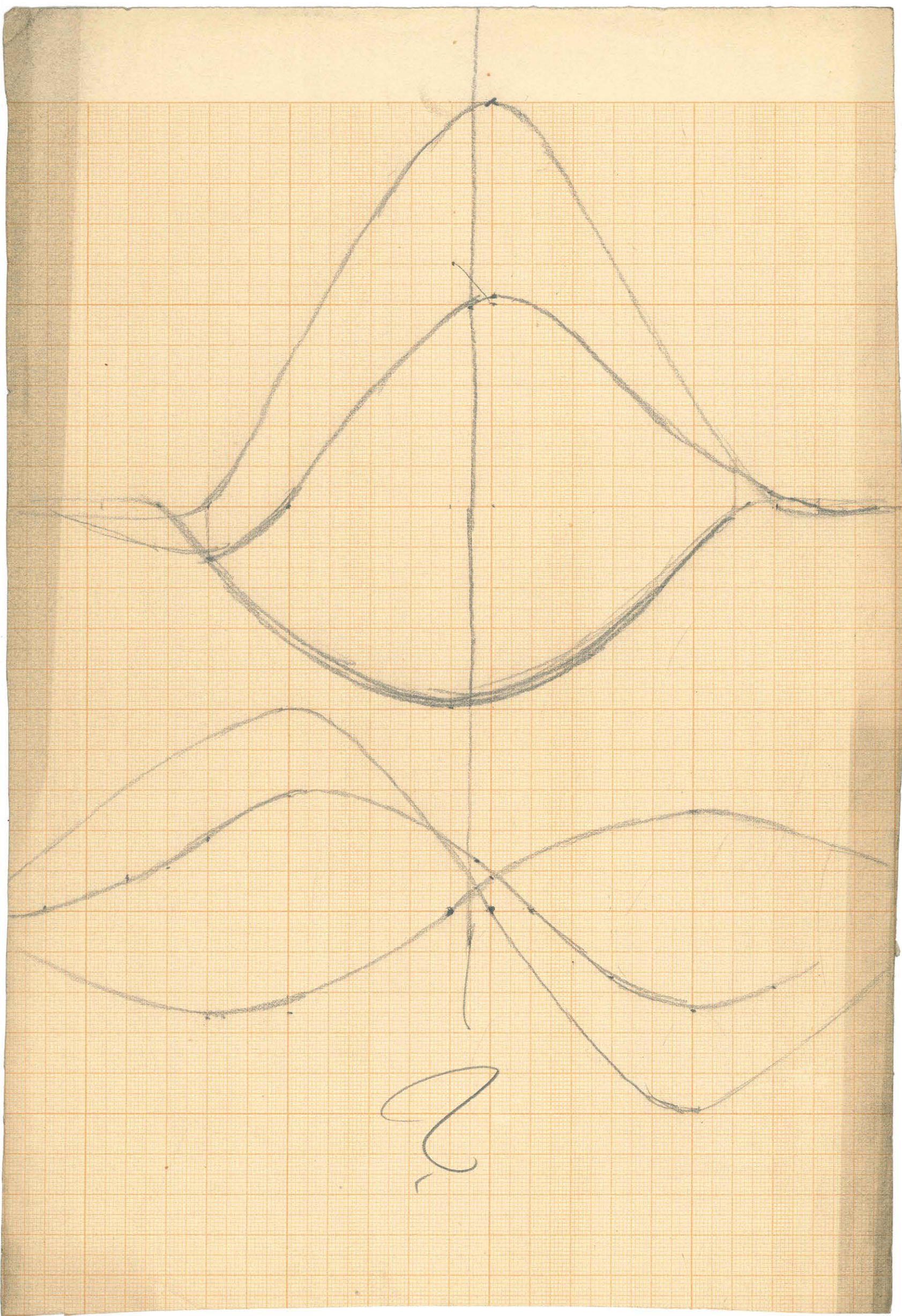


main 13

u = -0,3 0 +0,3 +0,6 +0,9 +1,2 +1,5



CS-2000 0 +0,3 +0,6 +0,9 +1,2 +1,5



A

418.9
7.3
383.9
58.6
359.8
92.4
341.4
117.6
324.3
137.2
312.2
150.9
301.1
162.0
293.2
170.0
286.2
177.4
281.3
183.7
275.4
189.3
272.1
192.8
267.9
197.6
265.0
201.1
260.8
203.7
258.3
206.3
256.2
208.4
253.8
209.8
252.9
212.0
257.0
213.9
249.2

10^L

45^m

12.5^s

2^m

22.0^s

45^m

34.5

2^m

18.5^s

47

53.0

2^m

17.5^s

50

10.5

2^m

16.5^s

52^m

27.0

62.0	11' 5" 9.0'	(4)	0' 27.5'
454.3			
83.4			
436.2			
103.5	5' 06.5'		
420.4			
120.0			
405.4			
127.8			
391.2		(10)	1' 8.5'
149.0			
381.4			
159.2			
372.8	6'		
168.8			
364.3		(9)	0' 25.5'
177.2			
356.2			
185.9	7'		
348.9			
193.8			0' 33.0'
341.7			
201.4			
334.2	7'		
208.3			
328.0			0' 33.5'
214.9			
321.8			
221.4	8'		
216.4			
226.7			0' 33.0'
311.4			
231.6			
307.0	8'		
234.8			
303.2			0' 33.0'
238.0			
300.8			
241.4	9'		
297.3			
243.8			0' 32.5'
295.5			
246.0			
293.4	9'		
247.9			
291.4			0' 33.0'
249.6			
290.1			
257.2	10'		27.5'

25.8
 418.1
 71.3
 393.2
 103.2
 374.0
 127.3
 358.3
 145.4
 345.3
 161.9
 334.2
 174.1
 325.9
 183.5
 318.9
 190.7
 313.5
 196.8
 207.8
 203.9
 303.0
 208.7
 298.5
 214.3
 295.0
 218.2
 291.3
 222.2
 288.2
 225.3
 286.1
 228.0
 284.5
 229.4
 283.2
 220.9
 281.9
 222.4
 280.9
 235.2
 279.4
 237.1
 277.7
 238.0
 276.9
 239.5
 275.9
 241.5
 274.9
 242.9
 273.4
 244.0
 272.2
 244.4

5' 52" 53.0

3" 58.5"

56" 53.5"

MASTERS
 3000/1000
 1000/1000

3" 53.0"

6' 0" 46.5"

3" 57.0"

6' 4" 07.5"

$$A = 3/5 \varepsilon \pi h \left(\frac{2}{3} \frac{1}{h} - \frac{r^2 + \frac{2}{3} h^2}{(r^2 + h^2)^{\frac{3}{2}} \varepsilon} \right) \quad l = 66,5 \cdot 10^{-9}$$

$$\sigma = 1,8$$

ha ε für Kalkulation Kijelentés a K. Kinc

$$A = 19,6304 h \left\{ \frac{2}{3} \frac{1}{h} - \frac{r^2 + \frac{2}{3} h^2}{(r^2 + h^2)^{\frac{3}{2}} \varepsilon} \right\} \varepsilon$$

$$\log 19,6304 = 1,292929$$

$$r = 150 \begin{cases} h = 100 & A = 3,314602 \\ h = 200 & A = 0,732506 \varepsilon \end{cases}$$

$$r = 500 \begin{cases} h = 100 & A = 12,7069 \\ h = 200 & A = 12,3914 \end{cases}$$

1770.

442.000

4800 00
98

550
13

115

120.000.-

MAGYAR
JUDOMATIKUS AKADEMIA
KÖNYVTÁRA

$$N = \frac{\pi}{\delta}$$

$$\frac{k}{K} = -\log \delta \frac{1}{\sqrt{\pi}} = -\frac{\log \delta}{\pi} + \frac{N^2}{\pi^2} \log^2 \delta$$

$$\frac{N^2}{\pi^2} \log^2 \delta$$

$$H = \frac{2 \log p \cdot K \cdot N \cdot \pi}{K \cdot N^2 \log \delta}$$

$$H = \frac{2 \pi \log p}{N \log \delta} = \frac{6}{10000 \cdot \frac{1}{5} \cdot 0.1} = \frac{30}{1000}$$

$$\begin{array}{r} 6052 \\ 45539 \\ \hline 90510 \end{array}$$

MAATYAN
KONVULSIA
JUDOMATOS AKADEMIA

$$\frac{2\pi}{\delta} = N \quad N \quad \frac{1}{\delta} = \frac{N}{\pi}$$

$$\frac{k}{K} = -\log \delta \frac{1}{\sqrt{\pi}}$$

$$\frac{K}{K} = -\log \delta \frac{K}{\pi}$$

$$H = \frac{2 \log p \cdot K \cdot N \cdot \pi}{K \cdot N^2 \cdot \frac{\log^2 \delta}{\pi^2}}$$

$$H = \frac{2 \log p \cdot \pi^2}{N \log \delta}$$

$$H = \frac{1}{1000} \cdot \frac{1}{50}$$

$$a \sin \varphi + b \cos \varphi + A \sin 2\varphi + B \cos 2\varphi = J$$

$$c_1 a \sin \varphi + c_2 b \cos \varphi + c_3 A \sin 2\varphi + c_4 B \cos 2\varphi = J'$$

$$0^\circ \quad J_1 = b + B$$

$$120^\circ \quad J_2 = a \frac{\sqrt{3}}{2} + \frac{b}{2} - A \frac{\sqrt{3}}{2} - \frac{B}{2}$$

$$240^\circ \quad J_3 = -a \frac{\sqrt{3}}{2} - \frac{b}{2} + A \frac{\sqrt{3}}{2} - \frac{B}{2}$$

~~$$0^\circ + 180^\circ \quad J'_1 = -c_2 b + c_4 B$$~~

$$0^\circ + 180^\circ \quad J'_1 = -c_2 b + c_4 B$$

$$120^\circ + 180^\circ \quad J'_2 = -c_1 a \frac{\sqrt{3}}{2} + c_2 \frac{b}{2} - c_3 A \frac{\sqrt{3}}{2} - c_4 \frac{B}{2}$$

$$240^\circ + 180^\circ \quad J'_3 = +c_1 a \frac{\sqrt{3}}{2} + c_2 \frac{b}{2} + c_3 A \frac{\sqrt{3}}{2} - c_4 \frac{B}{2}$$

$$1) \quad J_3 - J_2 = -a\sqrt{3} + A\sqrt{3}$$

$$2) \quad J'_3 - J'_2 = +a c_1 \sqrt{3} + A c_3 \sqrt{3}$$

cruciat A cu a

$$3) \quad J_2 - J_1 = -\frac{J_3 - J_2}{2} - \frac{3}{2}b - \frac{3}{2}B$$

$$J_2 - J_1 = +\frac{J_3 - J_2}{2} - \frac{3}{2}b - \frac{3}{2}B$$

cruciat b cu B

$$4) \quad J'_2 - J'_1 = -\frac{J'_3 - J'_2}{2} + \frac{3}{2}c_2 b - \frac{3}{2}c_4 B$$

$$J'_2 - J'_1 = +\frac{J'_3 - J'_2}{2} + \frac{3}{2}c_2 b - \frac{3}{2}c_4 B$$

Kedd. Julius. 24. júl. 24. a. h. 1900

Este 6 h. 20 m temp. 25,5° C. brútt 190,2
 7 h. 0 " 24,0 nappant 192,4
 7 h. 20 " 22,5 nappant 195,0
 8 h. 0 " 22,0 --- 196,8
 10 h. 20 " 19,8 haddvörðing 197,8
 11 h. 30 19,0 haddvörðing 197,8

Þenda Julius 30 -

Delectum 3 is lögjökullinn, Delectum þessa brútt, etc
 is 27.

Este 7 h. 5 m temp. 20,6° C. brútt 193,3
 - 30 m - 20,5 C - 193,8
 8 h. 0 20,4 C. 194,5
 9 h. 30 m - 19,2 C. 195,2
 10 h. 0 m 18,7 194,8
 10 h. 30 m 18,7 194,8

Grünlich Julius 21

Delectum 21, nappant Delectum 21, Delectum 21, Delectum 21

este 6 h. 20 m temp. 28° C. brútt 182,4
 40 m - 26,5 C. nappant 184,2
 7 h. 0 m - 25,6 C. " " 187,4
 20 " - 25,0 C. nappant 190,2
 40 " 24,0 C. brútt 192,8
 8 h. 0 " 23,1 C. - 194,4
 10 h. 20 " 22,8 C. 195,1
 20 " 21,1 196,2

esti 11h. 0 m. temp. 20,2°C. hordozás 195,8
 20 m. — 20°C. 195,8

Péntes horgászás 1.

Mutató, képen Dórtól nap.

esti 7h. 0 temp. 26,8 nap lenni 185,0

36 m 25,2 nap lenni 191,0

8h. 6m 24,5 " 192,6

" 40m 23,8 — 193,8

9h. 42. 23,5. hordozás 193,3

melyek között elforgatva és vissza —

esti 10h. 6 — 200 m. temp. 73,0

24m 300 — 231,8) 158,8

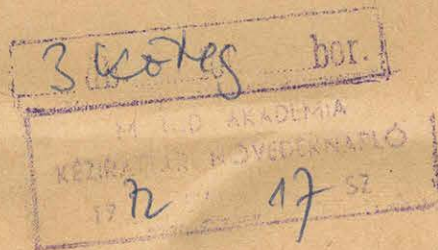
42m 0,1 — 179,7) 52,1) 0,328

10h. 59m 200 — 198,0) 18,3) 0,251

temp. 20,2°C. 11h. 17m 00. temp. 20,2. 192,1) 5,9) 0,227

összesen 193,6.

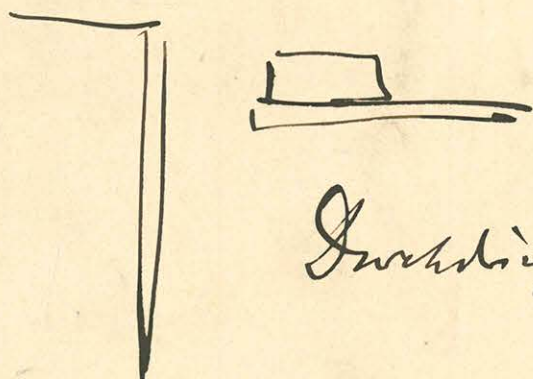
Ms 5106/15-17. Eötvös L. neves jegyzetei



Ms 5906/15

1840

Juin a princi



Swedish Litter

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

Allo 250

2000 J. 21. 2000

8h. 2m 246,6

10m 246,6

20m 246,7

Min. 20m

22m 246,85

24m 247,1

26m 247,6

28m 248,0

30m 248,4

32m 248,8

34m 248,95

36m 249,0

38m 249,0

40m 242,8

9h. 0m 247,9

14 247,9

94m 2000

16m

ny. 8h. 246,6

24 9h. 209,0

2000 10 2000

2000 7,6 2, 2000

2000 0,6 2000

2000 2000

2000

2,8 2,9 2000

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

248,5

alt 247,5 m

9h. 14 m h. vis. station

9h. 16 m 247,6 0,5-0,7 h. vis. station

18 m 247,0

20 m 246,1

22 m 245,2

24 m 244,4

26 m 243,85

28 m 243,3

30 m 242,05

32 m 242,0

34 m 242,1

hinunter

50 m 246,6

52 m 246,7

hinunter

10 h. 7 m 245,0

9 m 245,0

clust. ~~245,1~~

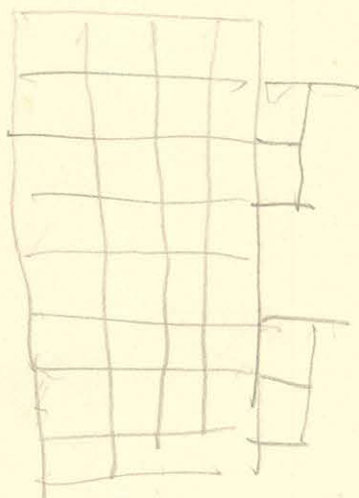
25 m 245,2

48 m 244,6

246,1

10 h. 49 m low. 1st low

alt 250,2



10 h. 51 244,0

1st low

11 h. 2 m 244,0

245,9

3 m low 1st low

11 h. 5 m 244,0

7 m 244,7

9 m 245,2

14 m 246,8

16 m 247,2

18 m 247,5

20 m 247,7

22 m 247,7 1st low

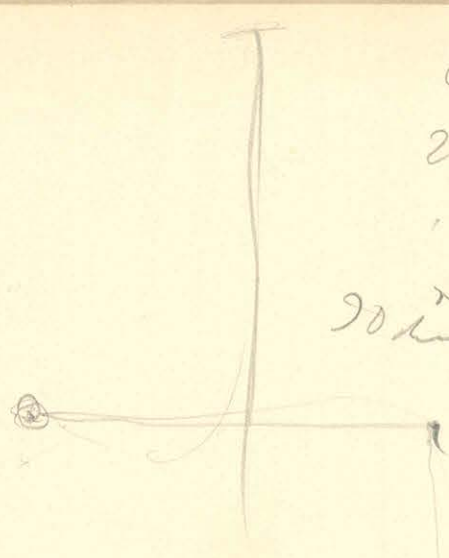
36 m 246,2

44 245,0

1 h. 34 m 244,2

247,5

1 h. 34 m low 1st low



28 d. este 8³⁵ h. und. t. ott áll
 29 d. 12 h. 12 h. 20 j. f. j. nyug. t. t.
 30 d. 8³⁵ h. elt. t. t.
 30 d. 7 h. 42 h. nyug. t. t.
 47 h. nyug. t. t.
 52 h. und. t. t.

8 h. 45 nyug. t. t.
 50 nyug. t. t.
 55 elt. t. t.

9 h. 45 nyug. t. t.
 50 nyug. t. t.
 55 elt. t. t.

10 h. 45 nyug. t. t.
 50 nyug. t. t.
 55 elt. t. t.

11 h. 45 nyug. t. t.
 50 nyug. t. t.
 55 elt. t. t.

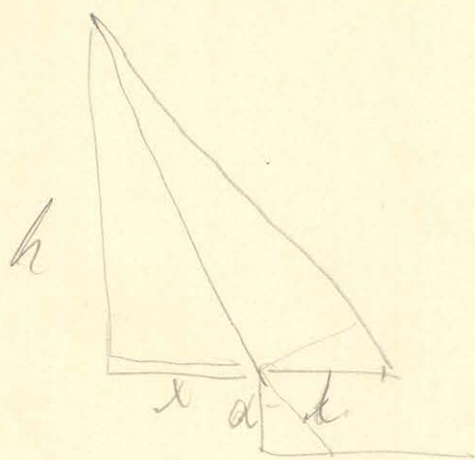
12 h. 45 nyug. t. t.
 50 nyug. t. t.
 55 elt. t. t.

1 h. 45 nyug. t. t.
 50 nyug. t. t.
 55 elt. t. t. } ad. t. t.

2 h. 45 nyug. t. t.
 50 nyug. t. t.
 55 elt. t. t.

3 h. 55 nyug. t. t.
 4 h. 0 nyug. t. t.
 4 h. 5 elt. t. t.

4 h. 55 nyug.
 5 h. 5 elt. t. t.
 5 h. 40 h. t. t.



$$\frac{d}{\sqrt{h^2+x^2}} \quad \frac{dh}{\sqrt{h^2+x^2}}$$

$$\frac{d^2 h}{(h^2+x^2)^{\frac{3}{2}}} \quad \frac{x}{\sqrt{h^2+x^2}}$$

$$a d^2 \frac{h x}{(h^2+x^2)^{\frac{3}{2}}} \quad \frac{\sqrt{h^2+x^2}}{h}$$

$$a d^2 \frac{x}{(h^2+x^2)^{\frac{3}{2}}}$$

$$a d^2 \frac{1}{x^2 \left(\frac{h^2}{x^2} + 1 \right)^{\frac{3}{2}}}$$

$$\frac{1}{(h^2+x^2)^{\frac{3}{2}}} - \frac{3}{2} \frac{x}{(h^2+x^2)^{\frac{5}{2}}} 2x$$

$$1 - \frac{3x^2}{h^2+x^2} = 0$$

$$h^2+x^2 = 3x^2$$

$$h^2 = 2x^2$$

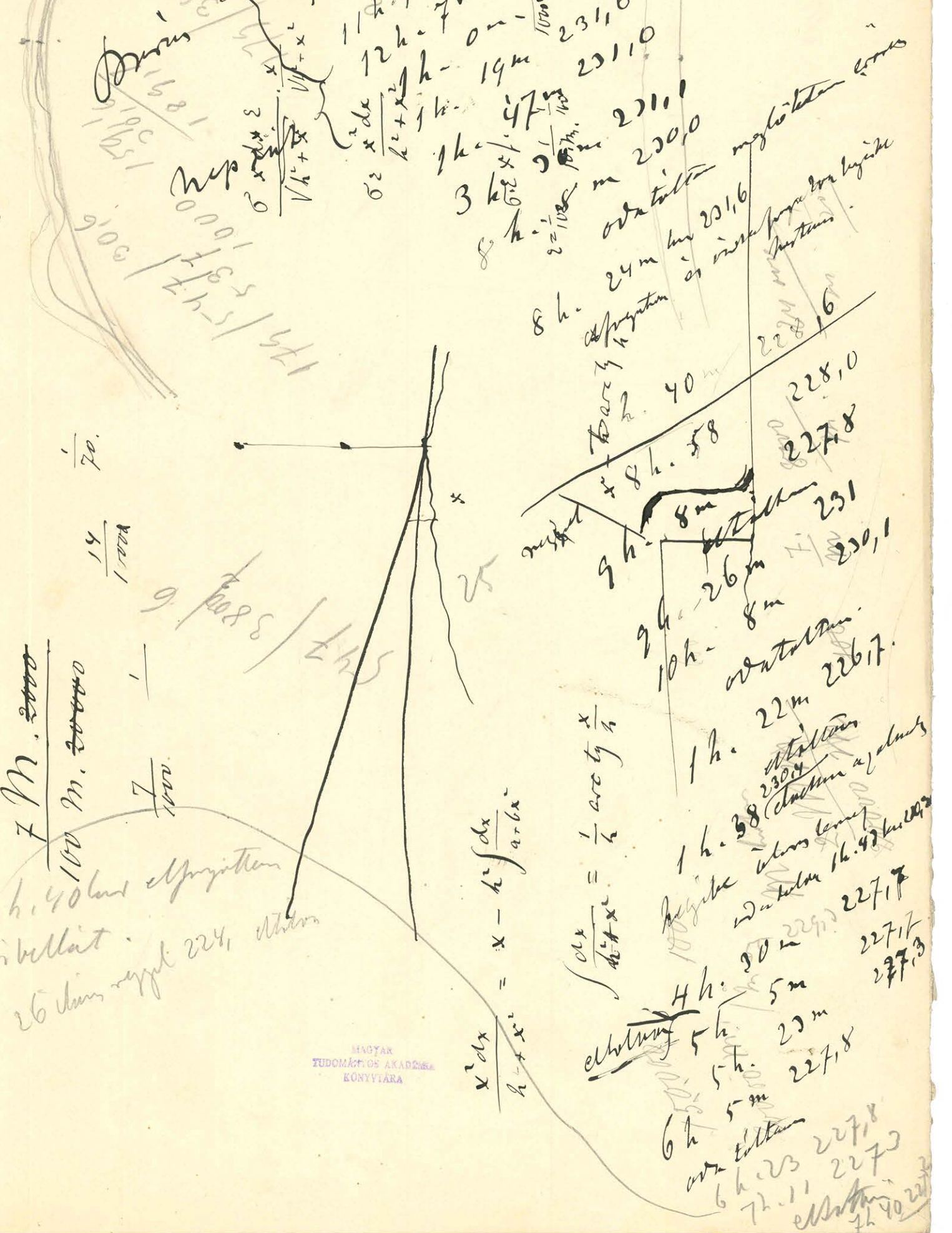
$$x = \sqrt{\frac{1}{2}} h$$

$$0,7, h.$$

$$\begin{array}{r} 52 \\ 7 \\ \hline 364 \end{array}$$

251

24
 20 2212
 8h. 51 222,2 elhullás
 9h. 21 222
 10h. 21 222,1
 10h. 45 222,1
 11h. 18m 220,7
 11h. 7m 220,6
 12h. 0m 228,5
 12h. 19m 231,6
 13h. 47m 231,0
 14h. 30m 231,1
 15h. 10m 230,0
 16h. 40m 228,0
 17h. 58m 227,8
 18h. 26m 231
 19h. 8m 230,1
 20h. 22m 226,7
 21h. 38m 230,4
 22h. 16m 227,7
 23h. 50m 227,1
 24h. 5m 227,8
 25h. 23m 227,8
 26h. 11m 227,3
 27h. 40m 227,3



7 M. 2000
 100 M. 20000
 7h. 40m elmozdított
 a kibékelt.
 26 km-nyit 224, elhullás

HÁGYAR
 TUDOMÁNYOS AKADÉMIA
 KÖNYVTÁRA

$\frac{x^2 dx}{h^2 + x^2} = x - h \int \frac{dx}{a^2 + x^2}$
 $\int \frac{dx}{h^2 + x^2} = \frac{1}{h} \arctan \frac{x}{h}$
 4h. 30m 227,8
 5h. 23m 227,8
 6h. 5m 227,8
 7h. 23m 227,8
 8h. 11m 227,3
 9h. 40m 227,3

$$20000 \text{ m m m m} \cdot \frac{7}{100 \text{ m}} \cdot \frac{70000000 \cdot 3}{30^4 \text{ m}^4}$$

$$\frac{20 \text{ m m m m m m}}{100 \text{ m}^6}$$

$$3 \sqrt{M} \frac{x dx}{a^4}$$

$$\begin{array}{r} 70 \cdot \\ 2 \cdot 400 \\ 30000 \end{array}$$

$$3 \cdot \frac{7}{100 \text{ m}} \cdot 20 \text{ m m m} \cdot \frac{70 \text{ m}}{\text{m}^5}$$

4

$$\frac{30000}{100 \text{ m m}} = \frac{300}{2000 \text{ m}}$$

Sell's eq $M = 4000 \text{ m m}$

$$dx = 100$$

$$a = 200000$$

$$a^4 = 100^4 \text{ m m}$$

$$a^4 = 1600 \text{ m m m}$$

$$\frac{1}{5 \text{ m}} \cdot 4000 \text{ m m} \cdot \frac{100}{1600 \text{ m m m}}$$

$$\frac{1}{10000 \text{ m}} \cdot \frac{1}{2 \text{ m}} \cdot 10000$$

$$a = 300 \text{ kilom} = 300 \text{ m C}$$

$$a^4 = \text{m}^5$$

$$x = 700000$$

$$dx = 100$$

$$x dx = 70 \text{ m}$$

$$M = 2000 \cdot 2 \cdot 10000 \text{ kilom}$$

$$1 \text{ kilom} = \text{m hite}$$

$$1 \text{ hite kilom} = 1000 \text{ m hite}$$

$$1 \text{ hite kilom} = 1000 \text{ m m} \cdot \text{hite}$$

$$M = 20 \text{ m m m}$$

$$\frac{10000}{100 \text{ m}}$$

$$f = \frac{7}{100 \text{ m}}$$

$$\frac{10}{16}$$

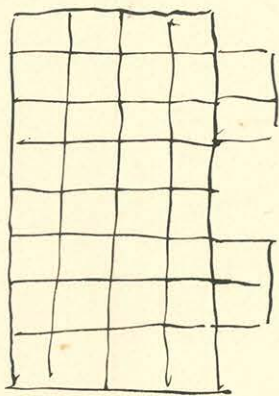
Junius 22.

A Drát Junius 16-ikére lett
bekész

Esztendő Junius 22-ikén a rendelkezés végrehajtása.

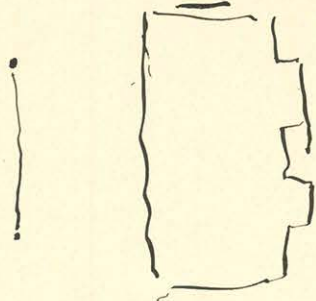
Esztendő a pénzre a Drát össze 102 a súlyok között
104 centiméter.

o. Az anatóliai álmok így



Az álmok horizontális felépítésűek a geometriai látszólagos
tér egyenlő távolságban vannak az egyik súly alatti 52 centime-
terrel, a másik súly felül 52 centiméterrel.

2 állás a horvátországi súly iránt.



A súlyok elrendezése a távolság közötti
közvetlen 40. c.

Az cseleki nádor.

Aratón a kamaryat fajt adak felevarak, clathron a fajt 2 pers
múlva igen fajt adak felevarak, aratón világon 1 pers
az i. kőzetek elosztás, clathron is kamaryat.

Az első utólagos bejegyzés az 21. évi este.

2 illa, kőzetek elosztás.

Olvasó kőzetek elosztás 40 C. tőre.

10 h. 20 m illa 250,0 mogy 241,4 Olvasó kőzet
22 m " " 241,4 Olvasó kőzet.

Olvasó kőzetek.

10 h. 20 m illa 250,0 mogy 243,95 Olvasó kőzet
22 m " " 243,95

Olvasó kőzetek.

11 h. 20 m illa 250,0 mogy 240,7 Olvasó kőzet
22 m " " 240,7.

megfigyelés.

alatt a kőzetek

12 h. 20 m illa 250,0 mogy 239,9 Olvasó kőzet
22 m " " " 239,9

alatt a kőzetek

megfigyelés

1 h. 20 m illa 250,0 mogy 239,0 Olvasó kőzet
22 m " " " 239,0

alatt a kőzetek

2 h. 20 m illa 250,0 mogy 238,4 Olvasó kőzet
22 m " " " 238,4

alatt a kőzetek

3 h. 22 m. álló 250 mogyó 239,8 állom. közél
állom. állatán

4 h. 20 m. álló 250 mogyó 242,7 állom. távol
" " " 242,7

állom. oda tartása

5 h. 20 m. álló 250 mogyó 240,0 állom. közél
22 m. " 250 mogyó 240,0

állom. állatán

6 h. 20 m. álló 250 mogyó 242,8 állom. távol
22 m. " " " 242,8

állom. oda tartása

7 h. 20 m. álló 250 mogyó 239,2 állom. közél
22 m. " " " 239,2
állom. állatán

8 h. 20 m. álló 250 mogyó 241,8 állom. távol
22 " " " 241,8
állom. oda

9 h. 20 m. álló 250 mogyó 237,2 állom. közél
22 m. " " " 237,2
állom. állatán

10 h. 20 m. álló 250 mogyó 240,7 állom. távol
22 m. " " " 240,7
állom. oda tartása

Junius 23 den regel sigs nedförs ned.

Jun. 22 den regel.

8 h. 18 m. Mo 250 mörje 233,4 öron höjel
15 h. " " " 233,4

öbrut ettötte.

8 h. 25 m. hur hi ränis i st. mörje v. 235,4 besökt t. t.
9 h. 14 m. hur. 230 m. v. r. 9 h. 19 m. hur. m. 229,0
9 h. 33 m. 230,8 , 10 h. 0 m. hur. 230,1 , 10 h. 20 m. 230,2
10 h. 36 m. 230,2

öbrut ~~ettötte~~ ^{ada tullam} sakung bi betö 2ten 42 m. hur. öbrut
ada t. t. öbrut v. h. t.

10 h. 59 m. 237,2 v. r. i. p. d. , 11 h. 10 m. 234,4
11 h. 20 m. 234,6

Amutens.

12 h. 30 m. - 235,2

öbrut ettötte 1 h. 32 m. hur. m. öbr.

3 h. 38 m. hur. 234,4

48 m. " 234,4

2 h. 48 m. öbrut ada tullam

4 h. 25 m. 233,7.

Székelytörzs 1945 C.

Dehutan 2h 25m 268,3 } alom ok
 4h. 12m 267,0 }

Alatt
 4h. 30m 268,0
 6h. 40 264,3 rang x
 6h. 46m 264,9
 7h. 0. 269,2 rang fordul
 18m 267,0 x "
 36m 267,8 x
 50 266,9

MAGYAR
 TUDOMÉNYOS AKADÉMIA
 KÖNYVTÁRA

oda tullen az elvétel 50km.

8h. 10m 266,0

egyet 12m 260,2

27. évi egyet 8h. 40 264,7

9h. 20 260

27. évi 2h. 55. 266,0 alom ok
 4h. 45. 263,8
 35 263,4

June 28th

nygg 7 255,0

8 h. 40 m 254,2 alen tavat

8 h. 41 m almak ada taltan, inglöth

8 h. 40 m 254,2

8 h. 56 m 260,2 funder

9 h. 18 m 260,0

36 m 260,0

altaltan almat

9 h. 53 m 261,3

10 h. 10 m 260,7

28 m 260,7.

adaltan alen 20 C. tavat

10 h. 50 m 258,6

11 h. 7 m 258,8

adaltan 2 Centimeter

11 h. 25 259,0

40 258,6

altaltan 27 Centimeter 45 m low.

12 h. 0 - 258,0

12 h. 59 257,2

altaltan — ~~258,9~~

1 h. 17 258,9

3 h. 4 m 257,0

adaltan 25 Centimeter 3 h. 5 m

3 h. 22 m 257,2

Ms 5106 / 16



$$\text{length} = \int_0^x x^2 \varepsilon dx$$

$$\text{and } \int_0^x \varepsilon dx$$

$$\text{then } \int_0^x \varepsilon \frac{x^2 dx}{(c^2 + x^2)^{3/2}}$$

$$\text{differentiate } \int_0^x \varepsilon \left(x - \int_0^x \frac{x^2 dx}{(c^2 + x^2)^{3/2}} \right) = \text{then}$$

$$\text{or } \int_0^x \varepsilon \left(x - \int_0^x \frac{x^2 + 2c^2}{(x^2 + 2c^2)^{3/2}} \frac{1}{\sqrt{c^2 + x^2}} \right)$$

$$\int_0^x = \frac{x^2 + 2c^2}{\sqrt{c^2 + x^2}} + 2c$$

$$\text{diff} = \int_0^x \varepsilon \left(x - 2c - \frac{x^2 + 2c^2}{\sqrt{c^2 + x^2}} \right)$$

$$= \int_0^x \varepsilon c \left(\frac{x}{c} + 2 - \frac{\frac{x^2}{c^2} + 2}{\sqrt{1 + \frac{x^2}{c^2}}} \right)$$

$$\text{as } x \rightarrow \infty \text{ then } = \int_0^x \varepsilon 2 \varepsilon c$$

$$d\sqrt{x^2 + c^2}$$

$$= \frac{1}{2} \frac{2x}{\sqrt{x^2 + c^2}}$$

$$\frac{x}{\sqrt{x^2 + c^2}}$$

$$c - \sqrt{x^2 + c^2}$$

$$\sqrt{x^2 + c^2} - c$$

$$\text{if } \text{then } \frac{x \varepsilon \int_0^x \varepsilon x dx}{x} = \frac{\int_0^x \varepsilon x dx}{\sqrt{x^2 + c^2}} \text{ right then } \text{length}$$

$$\int_0^x \varepsilon \left(x - \int_0^x \frac{x dx}{\sqrt{x^2 + c^2}} \right) = \int_0^x \varepsilon (x + c - \sqrt{x^2 + c^2})$$

$$= \int_0^x \varepsilon c \left(\frac{x}{c} + 1 - \sqrt{1 + \frac{x^2}{c^2}} \right)$$

$$= \int_0^x \varepsilon c \left(1 - \frac{x}{c} \left(1 + \frac{1}{2} \frac{c^2}{x^2} \right) \right)$$

$$c=2 \quad c=100$$

$$\frac{1400}{100 \text{ m}} \varepsilon = \frac{14}{\text{m}} \varepsilon \cdot 600 = \frac{8400}{\text{m}} \varepsilon$$

$$\frac{48400}{\text{m}} \varepsilon$$

$$\text{if } \frac{1}{1200} = 3 \quad \frac{13201000}{100 \text{ m}}$$

$$\frac{1}{20} \varepsilon$$

$$\frac{1}{2} \frac{c}{x}$$

$$\frac{J_m}{a^2} = \frac{J_m a}{(a^2 + c^2)^{\frac{3}{2}}}$$

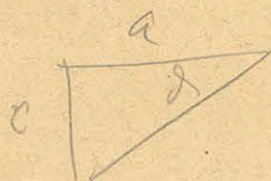


$$a^2 \varepsilon \delta \varphi$$

$$J_m \varepsilon \delta \varphi = \frac{J_m \varepsilon \delta \varphi}{\left(1 + \frac{c^2}{a^2}\right)^{\frac{3}{2}}}$$



$$\delta a J_m \varepsilon \delta \varphi \left(1 - \frac{a^3}{(a^2 + c^2)^{\frac{3}{2}}}\right)$$



$$\delta a J_m \varepsilon \delta \varphi (1 - \cos^3 \varphi)$$

$$\varepsilon = 1^\circ = \frac{1}{60} \quad \delta \varphi = \frac{1}{10}$$

$$\frac{1}{4} = \frac{1}{1}$$

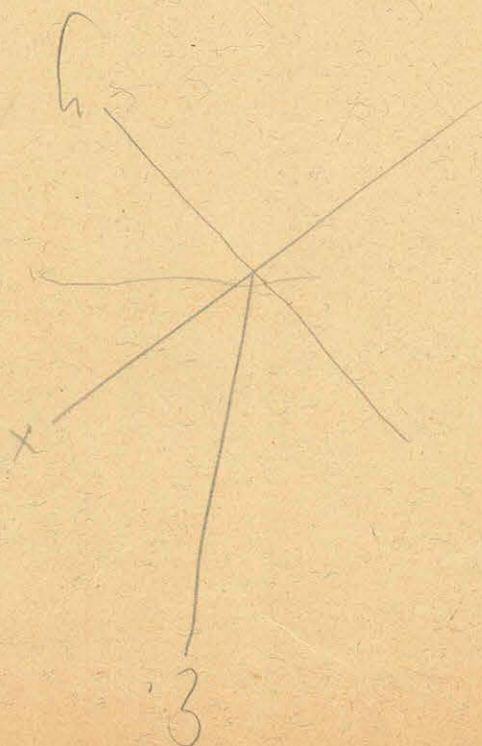
$$\frac{1}{1000} = \frac{1}{1000}$$

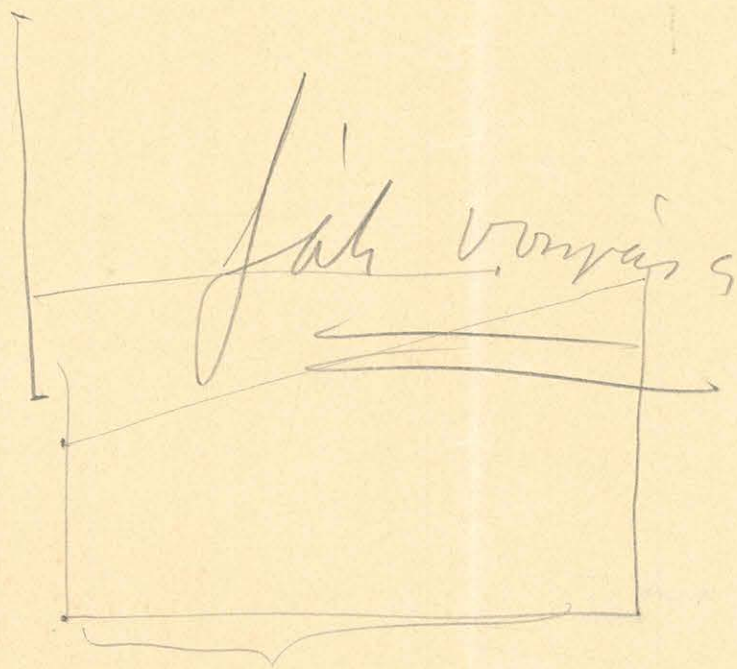
$$\frac{1}{1000} = \frac{1}{1000}$$

$$m \times 2$$

$$1050$$

$$17.5$$





$$a \int \frac{\sigma q dz \cdot (\cancel{z-h})}{((\cancel{z-h})^2 + a^2)}$$

$$a \sigma q \left\{ \frac{dz}{(z^2 + a^2)^{3/2}} - \frac{dz}{((z-h)^2 + a^2)^{3/2}} \right\}$$

$$z-h = x$$

$$dz = dx$$

$$a \sigma q \left\{ \frac{z}{a^2 \sqrt{z^2 + a^2}} - \frac{(z-h)}{a^2 \sqrt{(z-h)^2 + a^2}} \right\}$$

$$\frac{\sigma q}{a} \left\{ \frac{z}{\sqrt{z^2 + a^2}} - \frac{(z-h)}{\sqrt{(z-h)^2 + a^2}} + \frac{h}{\sqrt{h^2 + a^2}} \right\}$$

$$a = 400$$

$$a = 4$$

$$z = 400$$

$$z = 4$$

$$h = 100$$

$$h = 1$$

$$\frac{\sigma q}{a} \left\{ \frac{4}{\sqrt{32}} - \frac{3}{\sqrt{25}} - \frac{1}{\sqrt{17}} \right\}$$

$$\frac{1}{20 \text{ m}} \cdot \frac{800}{400} \left\{ \right\} = \frac{1}{10 \text{ m}} \left\{ \frac{4}{3} \right\}$$

$$= \frac{1}{10 \text{ m}} \left\{ \frac{4}{\sqrt{32}} - \frac{3}{\sqrt{25}} - \frac{1}{\sqrt{17}} \right\}$$

$$0,7071$$

$$0,6000$$

$$0,2442$$

$$= \frac{1}{10 \text{ m}} \cdot 0,1077$$

$$\frac{\frac{x}{y+1}}{\frac{x}{y-1} + 1}$$

$$\frac{\frac{x}{y+1}}{\frac{x}{y-1} + 1}$$

$$\frac{\frac{x}{y+1}}{\frac{x}{y-1}}$$

$$\frac{y+1}{x}$$

$$\frac{\frac{x}{y+1}}{\frac{x}{y-1}}$$

$$\frac{(1-y)+xy+x}{\left(\frac{x}{y+1}+x\right)(y-1)} \cdot \frac{1+y}{\frac{x}{y-1}+1}$$

$$\frac{\frac{x}{y+1} + \frac{x}{y-1} + \frac{x}{y-1} - 1}{\frac{x}{y+1} - \frac{x}{y-1} + \frac{x}{y-1} - \frac{x}{y-1}}$$

$$\frac{d}{dx} \left(\frac{x}{y} \right) = \frac{1}{y} - \frac{x}{y^2} \frac{dy}{dx}$$

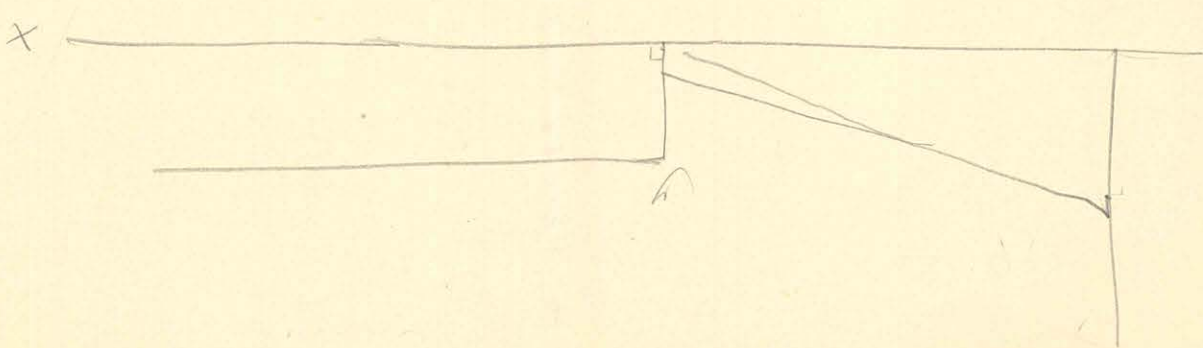
$$\frac{dy}{dx} = \frac{1}{y} - \frac{x}{y^2} \frac{dy}{dx} \Rightarrow \frac{dy}{dx} \left(1 + \frac{x}{y^2} \right) = \frac{1}{y}$$

$$\frac{dy}{dx} = \frac{1}{y} - \frac{x}{y^2} \frac{dy}{dx} \Rightarrow \frac{dy}{dx} \left(1 + \frac{x}{y^2} \right) = \frac{1}{y}$$

$$y = y - \frac{1}{y}$$

$$\frac{d}{dx} \left(\frac{(x^2+y^2)+x}{x^2+y^2} \right) = \frac{(2x+2y) + 1}{x^2+y^2} - \frac{(x^2+y^2)+x}{(x^2+y^2)^2} \cdot 2x$$

$$\frac{d}{dx} \left(\frac{(x^2+y^2)+x}{x^2+y^2} \right) = \frac{(2x+2y) + 1}{x^2+y^2} - \frac{(x^2+y^2)+x}{(x^2+y^2)^2} \cdot 2x$$



$$\int \frac{1-y}{1-y+y^2} = \int \frac{dy}{1-y+y^2} - \int \frac{y dy}{1-y+y^2}$$

$$\int \frac{dy}{1-y+y^2} = \frac{2}{\sqrt{3}} \operatorname{arctg} \frac{2y-1}{\sqrt{3}}$$

$$\int \frac{y dy}{1-y+y^2} = \log(1-y+y^2) + \frac{1}{\sqrt{3}} \operatorname{arctg} \frac{2y-1}{\sqrt{3}}$$

$$\frac{\pi}{\sqrt{3}}$$

$$\frac{1}{\sqrt{3}} \operatorname{arctg} \frac{2y-1}{\sqrt{3}} - \log(1-y+y^2)$$

$$\frac{1}{\sqrt{3}} \frac{\pi}{2} + \frac{1}{\sqrt{3}} \operatorname{arctg} \frac{1}{\sqrt{3}} - \log \infty$$

$$\frac{c^2 dx}{c^2 - cex + (e^2)x^2} - \frac{cex dx}{c^2 - cex + (e^2)x^2}$$

$$\frac{dx}{1 - \frac{e}{c}x + \frac{e^2}{c^2}x^2} - \frac{e}{c} \frac{x dx}{1 - \frac{e}{c}x + \frac{e^2}{c^2}x^2}$$

$$\frac{dx}{1 - \frac{e}{c}x + \frac{e^2}{c^2}x^2} - \frac{e}{c} \frac{x dx}{1 - \frac{e}{c}x + \frac{e^2}{c^2}x^2}$$

$$4ac - b^2 = \frac{5e^2}{c^2} + \frac{4}{c^2}$$

$$\frac{2c}{\sqrt{3e^2+4}} \operatorname{arctg} \frac{2cx - \frac{e}{c}}{\sqrt{3e^2+4}}$$

$$A = 3 \frac{km}{r^5} a^2$$

$$B = 3 \frac{km}{r^5} c a$$

$$\frac{\partial^2 V}{\partial z^2} = - \frac{km}{r^3} + 3 \frac{km}{r^5} a^2$$

$$\frac{B^2}{A} = 3 \frac{km}{r^5} c^2$$

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$$\frac{km}{r^3} = \frac{km}{r^5} a^2 + \frac{km}{r^5} c^2$$

$$\frac{km}{r^3} = \frac{1}{3} A + \frac{1}{3} B^2$$

$$\frac{\partial^2 V}{\partial z^2} =$$

$$\frac{\partial^2 V}{\partial z^2} = - \frac{km}{r^3} a^2 + 2 \frac{km}{r^5} c^2$$

$$= - \frac{1}{3} A + \frac{2}{3} \frac{B^2}{A}$$

$$\frac{\partial^2 V}{\partial z^2} = \frac{2B^2 - A^2}{3A}$$

$$\frac{2 \cdot \frac{km}{r^5} \frac{km}{r^5} 9 c^2 a^2 - 9 \frac{km}{r^5} \frac{km}{r^5} a^4}{9 \frac{km}{r^5} a^2}$$

$$2 \frac{km}{r^5} c^2 - \frac{km}{r^5} a^2$$

mind -1 + ind

$$\int = \inf 8$$

$$\int_0^1 \frac{9 \frac{km}{r^5} a^2}{\sqrt{1+z^2}} dz = \frac{9 \frac{km}{r^5} a^2}{\sqrt{1+z^2}} \left(\frac{z}{2} + \frac{3}{2} \ln \left(\frac{1+\sqrt{1+z^2}}{2} \right) \right)$$

$$\int e^x dx$$

$$\int e^x dx = \frac{\int e^x x^2 dx}{x^2 + c^2}$$

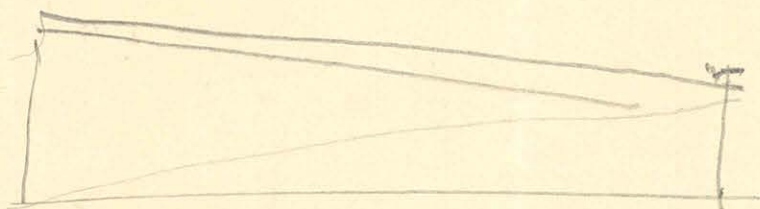
$$\int e^x dx = \int e^x \frac{dx}{x^2 + c^2}$$

$$\frac{\int e^x dx}{x^2 + c^2} = x - c^2 \int \frac{dx}{x^2 + c^2}$$

$$= x - c^2 \frac{1}{c} \arctan \frac{x}{c}$$

$$e^{\frac{1 - \frac{1}{1 + \frac{c}{x}(\frac{c}{x} - e)}}{1 + e^2}} = x - c \frac{\pi}{2}$$

$$= e^{\frac{\frac{c}{x}(\frac{c}{x} - e)}{\frac{c}{x}(\frac{c}{x} - e) + e^2}} \frac{\pi}{2}$$



$$\frac{dx x^2 d\epsilon}{x^2 + x^2 \epsilon^2} = \frac{dx x^2 d\epsilon}{x^2 + (c - x\epsilon)^2}$$

$$dx \frac{d\epsilon}{1 + \epsilon^2} = dx \frac{d\epsilon}{1 + (\frac{c}{x} - \epsilon)^2}$$

$$dx \arctan \epsilon + dx \arctan \left(\frac{c}{x} - \epsilon \right) = dx \arctan \frac{c}{x} - dx \left(\frac{c}{x} - \epsilon \right)^3$$

$$dx \arctan \epsilon + dx \arctan \frac{\frac{c}{x} - \epsilon - \frac{c}{x}}{1 + \frac{c}{x}(\frac{c}{x} - \epsilon)} = dx \left(\arctan \epsilon + \arctan \frac{e}{1 + \frac{c}{x}(\frac{c}{x} - e)} \right)$$

$$e^{\frac{\frac{c}{x}(\frac{c}{x} - e)}{\frac{c}{x}(\frac{c}{x} - e) + e^2}}$$

$$e^{\frac{c^2 - cex}{c^2 - cex + e^2 x^2}}$$

$$e^{\frac{c(c - ex)}{(c - ex)^2 - cex}}$$

$$e^{\frac{1 - e \frac{x}{c}}{1 - e \frac{x}{c} + e^2 \frac{x^2}{c^2}}}$$

$$e^{\frac{1 - y}{1 - y + y^2}}$$

$$\frac{dx}{1 + (\frac{c}{x} - \epsilon)^2}$$

$$\frac{c}{x} - \epsilon = y$$

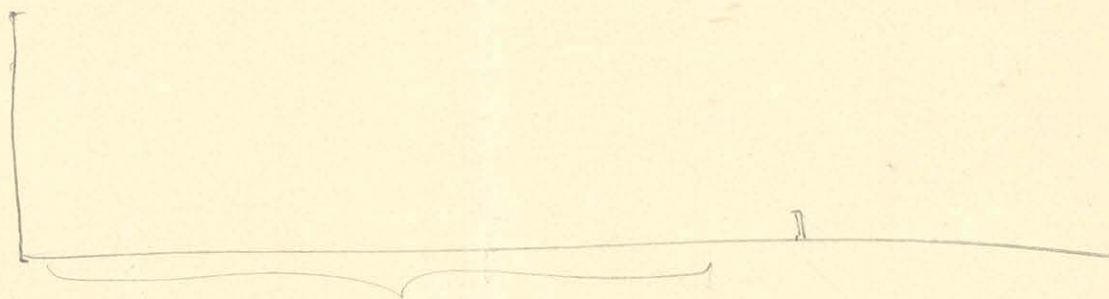
$$- d\epsilon$$

$$\epsilon =$$

$$\frac{c}{x} - e$$

$$\frac{c}{x}$$

$$\frac{c}{x} - \epsilon$$



$$\frac{\int_0^1 dx \cdot x^2 \frac{dz}{dz}}{x^2 + x^2 \varepsilon^2} - \frac{\int_0^1 dx \cdot x^2 \frac{dz}{dz}}{x^2 + (c - x\varepsilon)^2}$$

$$\int_0^1 dx \int \frac{dz}{1 + \varepsilon^2} - \int_0^1 dx \int \frac{dz}{1 + (\frac{c}{x} - \varepsilon)^2}$$

ans

$$\int_0^1 dx \varepsilon - \int_0^1 dx (\frac{c}{x} - \varepsilon)$$

$\varepsilon = \frac{c}{x}$

$$\frac{dx}{x}$$

$$\int_0^1 dx \varepsilon + \int_0^1 dx (\frac{c}{x} - \varepsilon) - \int_0^1 dx \frac{c}{x}$$

0.

$$\frac{d}{dx} \frac{c}{x} - \varepsilon = \delta$$

$\varepsilon = \frac{c}{x}$

$$\int \frac{x^2 dx^2}{c^2 + x^2} = x - c^2 \int \frac{1}{c} \arctan \frac{x}{c}$$

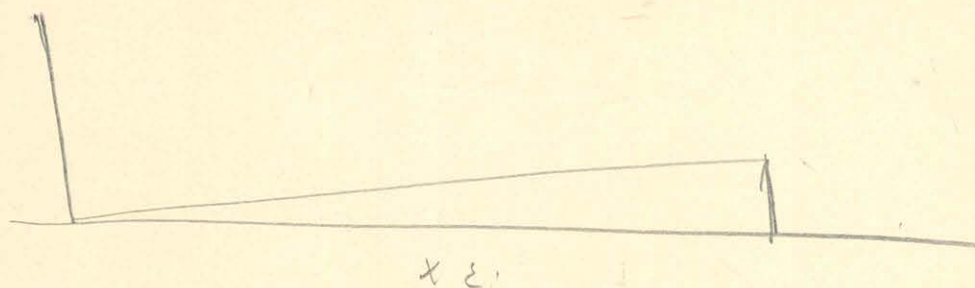
$$- \frac{x^3}{c^3}$$

$$x - \frac{x^3}{c^3}$$

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$$\varepsilon = \frac{c}{x}$$

ans



$$x^2 \varepsilon dx \quad \frac{x^2 dx d\varepsilon}{x^2 + (c - x\varepsilon)^2}$$

$$dx \int \frac{d\varepsilon}{1 + \varepsilon^2} - dx \int \frac{d\varepsilon}{1 + (\frac{c}{x} - \varepsilon)^2}$$

$$dx \arctan \varepsilon - dx \arctan (\varepsilon - \frac{c}{x})$$

$$dx \left\{ \arctan \varepsilon - \arctan (\varepsilon - \frac{c}{x}) + \arctan \frac{c}{x} \right\}$$

$$\arctan (\varepsilon - \frac{c}{x}) + \arctan \frac{c}{x} = \arctan \frac{e}{1 - \frac{c}{x}(\varepsilon - \frac{c}{x})}$$

$$dx \left\{ \arctan \varepsilon - \frac{\arctan \frac{c}{x}}{1 - \frac{c}{x}(\varepsilon - \frac{c}{x})} \right\}$$

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$$dx \arctan \frac{e - \frac{e}{1 - \frac{c}{x}(\varepsilon - \frac{c}{x})}}{1 + \frac{e^2}{1 - \frac{c}{x}(\varepsilon - \frac{c}{x})}} = dx \arctan e \frac{\frac{c}{x}(\frac{c}{x} - e)}{e^2 + 1 - \frac{c}{x}(c - \frac{c}{x})}$$

$$= dx \arctan e \frac{\frac{c}{x}(\frac{c}{x} - e)}{\frac{c}{x}(c - e) + e^2 + 1}$$

arctan e konstans, így a számláló e konstans

$$= dx \cdot e \frac{\frac{c}{x}(\frac{c}{x} - e)}{\frac{c}{x}(c - e) + e^2 + 1} = e dx \frac{c^2 - ecx}{c^2 - ecx + (e^2 + 1)x^2}$$

$$\int e dx \frac{e^2 - e c x}{c^2 - e c x + (e^2 + 1) x^2}$$

$$\int e dx \frac{1 - e \frac{x}{c}}{1 - e \frac{x}{c} + (e^2 + 1) \frac{x^2}{c^2}}$$

$$\frac{x}{c} = y$$

$$dx = c dy$$

$$\int e c dy \frac{1 - e y}{1 - e y + (e^2 + 1) y^2}$$

$$= \int e c \left(\int \frac{dy}{1 - e y + (e^2 + 1) y^2} - e \int \frac{y dy}{1 - e y + (e^2 + 1) y^2} \right)$$

$$\int \frac{dy}{1 - e y + (e^2 + 1) y^2} = \frac{2}{\sqrt{4(e^2 + 1) - e^2}} \operatorname{arctg} \frac{2(e^2 + 1)y - e}{\sqrt{4(e^2 + 1) - e^2}}$$

$$\int \frac{dy}{1 - e y + (e^2 + 1) y^2} = \frac{2}{\sqrt{4 + 3e^2}} \operatorname{arctg} \frac{2(e^2 + 1)y - e}{\sqrt{4 + 3e^2}}$$

$$\int y dy = \frac{1}{2(e^2 + 1)} \log(1 - e y + (e^2 + 1) y^2) + \frac{e}{2(e^2 + 1)} \frac{2}{\sqrt{4 + 3e^2}} \operatorname{arctg} \frac{2(e^2 + 1)y - e}{\sqrt{4 + 3e^2}}$$

$$E_{\text{gen}} = \int_0^\infty e c \left(-\frac{e}{2(e^2 + 1)} \log(1 - e y + (e^2 + 1) y^2) + \left(1 - \frac{e^2}{2(e^2 + 1)}\right) \frac{2}{\sqrt{4 + 3e^2}} \operatorname{arctg} \frac{2(e^2 + 1)y - e}{\sqrt{4 + 3e^2}} \right)$$

$$y = 0 \text{ na } \operatorname{arctg} = 0$$

l'Hôpital's e ring

$$\text{prec} \left(-\frac{e}{2} \ln(1 - ey + y^2) + \arctan \frac{2y - e}{2} \right) + \arctan \left(y - \frac{e}{2} \right)$$

$$y = \frac{x}{c}$$

let $\frac{x}{c}$ if you may add

$$\text{prec} \left(-\frac{e}{2} \right)$$

$$\text{prec} \left(-e \ln \frac{x}{c} + \frac{\pi}{2} \right)$$

$$\frac{x}{c} = \text{Brick's}$$

$$\text{prec} \frac{\pi}{2}$$

$$c \arctan \frac{x}{c}$$

$$\frac{e - e + 2y}{1 - ey + y^2} + \frac{1}{c}$$

$$dc \arctan \frac{x}{c} + c \frac{1}{1 + \frac{x^2}{c^2}}$$

$$dc \arctan \frac{x}{c} \frac{1}{1 + \frac{x^2}{c^2}} \frac{c}{c^2 + x^2}$$

$$So \left(\arctan \frac{y}{c} - \frac{c}{x} \right)$$

$$\left(\frac{1}{1 + \frac{x^2}{c^2}} \right) \frac{x}{c} \frac{c}{c^2 + x^2} \frac{x}{c} \frac{1}{1 + \frac{x^2}{c^2}}$$

$$\begin{array}{r} 258.6 \\ 56.9 \\ \hline \end{array}$$

$$\frac{175}{}$$

78

$$\frac{257.8 \text{ cm}}{}$$

Ms 5106 / 17

$$\begin{array}{r} 442.5 \\ 257.8 \\ \hline 184.7 \end{array}$$

$$\frac{17.5}{}$$



$$\frac{8.8}{5.5}$$

$$\frac{3.5}{1.6}$$

$$\frac{1.25}{}$$

$$\begin{array}{r} 442.5 \\ 442.1 \\ \hline 9.4 \end{array}$$

- 174.3
- 176.5
- 174.1
- 176.0
- 174.2
- 176.3
- 31.4
- 175.3

$$\begin{array}{r} 175.3 \\ 257.8 \\ \hline 433.1 \end{array}$$

$$\frac{8.8}{}$$

$$\frac{8.5}{5.5}$$

$$\frac{2.8}{1.4}$$

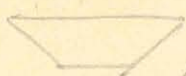
$$271^{\circ} 30'$$

Március 19. nyílt

nyílt két só hely

nyílt T=2. 45 249,0

kefide két



Jalanyos

2

14m 46s { 8h. 9m 20s 40,1

14m 10 { 9h. 8m 25s 217,9

14m 10 { " 22m 35s 278,9

14m { " 36m 25s 237,9

161,0
10,672 m 254,3
41,6

nyílt két két

T=15m 20s 10h. 1m 45s 18,0

17m 15s 389,4 371,4 d=0,609 248,1

T=14m 40s 31m 55s 163,3 226,1 d=0,658 252,0

14m 25s 46m 30s 312,1 148,8 d=0,654 252,3

18m 20 11h 8m 50s 214,8

Alján fekete pontos két oldalán
19m 10 (nyílt két)

T=16m 20s. 11h 26m 30s 5,2 389,4

T=15m 10s 42m 30s 394,6

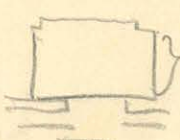
T=15m 10s 57 40 162,6 232,0

T=15m 10s 12h. 12m 40 311,8

2

Két nagy fa mellett két

30m 54



40.

Körül ábrázolt 8 C.

T=16m 10s 12h 38m 10s 4,7

16m 20s 54m 20 384,7 222,5

18m 0 1h. 10m 50 152,3 1142,1

19m 40s 28m 50s 309,2 98,2

21m 10s 48m 30 211,0 58,9

21m 10s 2h. 9m 46 269,9

3. 4h. 20 248


6h 20 247

nyílt két két két két két két két két

nyílt

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$T=20m$ 35 6h 48m 100 277,7 1343,9, $d=0,550$ $g_m=249,6$
 $T=23m$ 5h 7h 8m 450 371,6 189,1
 $T=25m$ 200 7h 31m 500 182,5 103,7 $d=0,548$ $g_m=249,5$
 $T=25m$ 200 7h 57m 20 286,2


 80 80
 heit 80 a hölsö karitän

21m 8h 25m 100 76,8, 243,1
 21m 46m 100 339,9 142,4
 23m 30 9h 9m 40 197,5 55,8 10,462, 242,5
 34m 20 260,2

$t=10^{\circ}C$ 20 min 7h 35m 238,2
 40 207,9

lygine hörsen

$T=19m$ 500 8h 6m 0 9,3 1361,9, 0,548 $g_m=249,0$
 $T=21m$ 500 25m 500 371,2 198,4 0,570 $g_m=249,9$
 $T=22$ 30 9h 47m 400 172,8 101,3
 10m 10 274,1

$T=23m$ 50 34m 2 23,7

jättnä 2 Continuum för 200

$T=18m$ 450 10h 19m 500 357,3 1166,4, 0,570 $g_m=249,1$
 $T=19m$ 5 38m 350 190,9 89,3 0,522 $g_m=249,5$
 $T=19m$ 20 11h 57m 40 280,2 46,6
 17m 2 230,6

40-40

förhöje 40. 40. 40. 40. 40. 40. 40. 40. 40. 40.

$T=18m$ 500 11h 44m 0 48,3 1304,7, 0,574 $g_m=245,7$
 12h 2m 50 353,0 1162,7
 18m 400 12h 20m 45 190,3
 39m 20 278,0

40h 50m 40h 40h 40h 40h 40h 40h 40h 40h

1h 8m 550 307,0 x 40h
 280 1h 9m 44,0 180 1h 13m 54,0
 260 10m 27,0 160 15m 8,5
 240 11 12,5 150 15 57,0
 220 12m 1,0 140 17m 15,0
 200 12m 53,5 18m 50 136,3 x 40h

249,6
249,5

Almire 200. 1h 25m 170
240 " 28m 30
260 29m 200
280 31m 260

1h (18m 50 126,0) 164,5 0,493 244,4
35m 40 297,8 x 79,6 244,4
53m 20 218,2 a 39,1 20,491 244,4
2h 11m 0 257,3

clatun a lăptos clădire năpă

0. n.

3h 35 240,0
40m 240,2
4h 53m 243,8
18m 240,5

243,6

4h 13 m huc linăstare tătare năpărit 350,1 m

făcătoare mureșă lătar năpărit

6h 3m 40 239,9 16,0 243,9
21m 2 245,9
39m 2 242,7

hăușă

13,0
9,9

7h 3 m 200 240,8 m năpărit
hăușă

7h 40m 50 246,8 m năpărit
51m 30 240,5 x făcătoare

8h 92 0 243,9 x 243,3
27m 0 242,9

f=11°C

Kivettun a făc 8h 20 huc

8h 34m 40 367,7 x

5h 10h 57m 247,8 hăușă

4m 11h 9m 246,8 x

t=11°2 C.

" 27m 247,7

năpărit 8h. l=10°4 247,0

Reși mureșă a lătar făcătoare, lătar făcătoare

10h 29m 250 827 1289,1 0,581 m=265,6
T=17m 25 46m 50 371,8 168,0
11h 3m 40 203,8 m năpărit clădire
T=16m 0 18m 10 302,2 98,4 0,585 m=265,2
T=16m 0 34m 10 242,9 59,4 0,604 m=265,1
50m 10 278,9

17

0

13

Ismerés helyén felmérés 8 C. alvándjára 1 C. vastag talajra

balról I jobbra II

12 h. 19 m 20 s - 43,0

37 m határig jár a kőszelvény...

$T = 12 \text{ m } 45 \text{ s}$	12 h.	45 m	30 s	+20,9	1,77,4		
	"	58 m	15 s	98,3	1,64,1	10,828	$\text{mm} = 63,3$
$T = 12 \text{ m } 45 \text{ s}$	1 h.	11 m	0 s	34,2	1,40,0	10,624	$\text{mm} = 58,9$
		23 m	45 s	74,2	1,23,2	10,580	$\text{mm} = 54,6$
		26 m	15 s	50,8			
	2. m	4 h.	21 m	112,8			
	"		53	104,8			

nyújtószalag a földfelszínhez II az 180 fahosszú szalag



$T = 7 \text{ m } 20 \text{ s}$	5 h.	2 m	20 s	384,8	1,217,3		
		9 m	40 s	167,5	1,170,9	10,1787	$\text{mm} = 263,1$
		17 m	0 s	338,4	1,137,5	10,804	$\text{mm} = 262,0$
$T = 7 \text{ m } 30 \text{ s}$		24 m	20 s	200,9			
		31 m	50 s	310,1			

felmérés a földfelszínen

$T = 5 \text{ h.}$	38 m	20 s	311,2
$T = 8 \text{ m}$	46 m	20 s	301,2
$T = 8 \text{ m } 10 \text{ s}$	54 m	30 s	231,0

Rövid mértékű

$T = 13 \text{ m } 55 \text{ s}$	18 m	50 s	72,2	309,7	10,655	
	32 m	45 s	387,9	200,9		
$T = 14 \text{ m } 17 \text{ s}$	47 m	0 s	179,0	195,1	0,665	$\text{mm} = 260,1$
$\alpha = 10^\circ 7'$	1 h.	1 m	20 s	314,1		

Közd mértékű

	7 h.	35	Kivétel	212,2	$\alpha = 10^\circ$
		54 m		215,8	
	8 h.	10 m		217,2	
	9 h.	20 m		212,3	
	9 h.	48 m	40 s	30,9	
$T = 23 \text{ m } 10 \text{ s}$	10 h.	11 m	50 s	354,8	
$T = 30 \text{ m } 10 \text{ s}$	"	42 m	0 s	161,3	
	11 h.	6 m	0 s	225,2	nyílt

Péntek március 25. ünnep.

Készítettem két négyzetes paraffin lemezzel mélyre a lapjain
mire két napra megint az eredetire a fém tárgyat felhelyeztem.

A lapok elöl, jobbra balra az évek 10h. 20m. és
10 h. 27 m. között $T = 39,5^\circ$

40 m. között $\left\{ \begin{array}{l} 214,4 \\ 338,4 \\ 216,8 \\ 336,2 \\ 219,0 \end{array} \right.$ egyenlő 278,0

Készítettem két oldalán Stanislav.

$T = 7m 15s$	10 h. 57 m	30 s	398,8) 206,2) 0,798) 284,2	
"	58 m	45 s	192,6				
$T = 7m 10s$	"	5 m	55 s	357,2) 133,6) 0,842) 276,4
$T = 6m 55s$	12 m	50	223,6				

Stanislav el.

11 h. 15 m. között $T = 39,5^\circ$

20 m. között $\left\{ \begin{array}{l} 316,6^2 \\ 232,4 \\ 318,0 \\ 235,0 \\ 316,2 \end{array} \right.$ egyenlő 276,3

Készítettem a paraffinlemez b. oldalára

11 h. 25 m. között $T = 40,2^\circ$

24 m. között $\left\{ \begin{array}{l} 240,8 \\ 306,2 \\ 242,0 \\ 305,1 \\ 243,2 \end{array} \right.$ egyenlő 273,8

Két oldalán Stanislav el. felve

$T = 5m 25s$	11 h. 37 m	25 s	335,2) 1103,3
"	43 m	0 s	231,9	
5 m 25 s	48 m	25 s	321,4	
5 m 25 s	54 m	10 s	245,0	

$T = 5m\ 20s$ 122,38m 30 268,4
 53m 40s 287,8

nyra legjete hastan

12h. 48m 55s 462,5
 $T = 6m\ 50s$ 55m 35s 125,4 337,1 0,811 m = 276,3
 6m 20s 1h 1m 55s 398,8 273,4
 5m 55s 7m 50s 178,6 120,2 0,834 m = 278,8
 5m 40s 1h 30s 362,3 183,7



Stamm-ke legjete hastan kütös feinfed ökhel c)

1h. 23m 45s 148,6
 $T = 12m\ 30s$ 36m 15s 321,4 1172,8 10,669 m = 252,2
 $T = 12m\ 50s$ 48m 20 205,8 1115,6
 $T = 12m\ 0s$ 2h 0m 20s 290,0 84,2 10,728 m = 254,5
 kivitöjstör 2m 5h 19m 259,9 } all
 16m 259,15

nyra legjete hastan

5h 22m 15s 374,8 x nagy bogy evon long
 $T = 11m\ 20s$ 33m 35s 174,6 200,2
 11m 35s 45m 10s 319,3 144,7
 $T = 10m\ 50s$ 56m 0s 217,2 102,1
 $T = 11m\ 0s$ 7m 0s 292,5 75,2 0,1727 m = 260,8

6 h. 26 m has keményen a fadókat is a stammolt

28 könt $T = 40$
 20 könt { 268,8
 280,4
 268,9
 egyen 274,6

ke Puffin legjete nyra 9 oldalra fogottam

6 h. 25m könt $T = 45,5 sec.$

40m könt { 365,8
 187,6
 361,6
 185,8
 957,8
 egyen = 274,5

6 h. 44 has relatív stammolt is fadókat

Paraffin Standard für festes Öl 9

46 m 20 s ← 200 mit mäßig a. h. o. o. g. g. g. g.
 47 m 20 s ← 165
 48 m 20 s ← 135
 49 m 20 s ← 114
 50 m 20 s ← 101
 51 m 20 s ← 96

proben 6 h 51 m 35 s 95,9 x

Körner proben beginne mit tun a. festes festes leuchtend

T = 12 m 5 s 7 h 4 m 20 s 334,1
 " 16 m 25 s 174,1 159,3 0,717 247,1
 T = 11 m 55 s 28 m 20 s 289,0 114,2 0,698 242,1
 11 m 20 s 7 h 49 m 50 s 209,3 79,7 t = 10° 4

Standard regel 7 h. 47 248,0 t = 10° 1

beginne mit tun

regel 7 h 58 m 5 s 424,8
 T = 12 m 30 s 8 h 5 m 35 s 119,3 305,5
 11 m 50 s 17 m 25 s 332,3 213,0 196,97 eigen =

Körp. T = 10 m 44 s

9 h 11 m 50 s 232,9

1 h. 40 h. all 255,0

este 7 h. 0 — 255,4

Standard D. Standard für festes Öl

Vainen regel 9 h. 11 — 256,9 t = 10° 1.

beginne mit tun

T = 11 m 35 s 9 h. 19 m 5 s 481,3
 " 30 m 40 s 93,2 388,1
 T = 10 m 50 s 41 m 30 s x 363,8 270,6
 T = 10 m 10 s 51 m 40 h. 174,6 189,2 107,00 252,5
 T = 10 m 0 10 h 1 m 40 h. 316,2 191,6
 10 m 40 s x 211,9 104,3
 T = 9 m 20 s 20 m 20 s 292,1 180,3 101,2 9,762 eigen 257,3
 20 m 10 s 230,9

etwas a. Standard a. festes Öl

Paraffin Hammered in first moment

10 h. 26 m. 10 s.

388,6	194,4
360,8	256,8
192,6	551,2
256,8	275,6
196,2	

Summ 275,6

0 h. 10 m. 27,6 m. above 10 h. 40 m. 50,5 s. Angel. 152

$T = 17,70$
 $a = 102$
 $T = 47,70$

1 m

2 m

42 m 26,1

44 m 1,50 206,6 - 242,9

207,8 -

$T = 48,9$

7 m

8 m

9 m

10 h. 52 m 1,5 220,8 - 329,0

53 38 223,1 - 326,6

55 m 15,4 225,1 31 - 32

$T = 49,0$

11 h

4 m 0,2 227,6 - 312,8

5 m 38,4 239,2 - 311,1

7 m 17,1 275,6

Positive position negative position 2 fold the vector

50 chains accumulative telegram

$T = 51,4$

11 h. 20 m 21,2 253,0 - 298

25 m 3,5 254,1 - 297

26 m 46,5

positive position less absolute

$T = 52,0$

11 h. 30 m 14,1 257,0 - 294,2

31 m 58,1 257,9 - 293,3

52,3

33 m 42,5

52,5

35 m 27,5 258,6 - 291,8

12 h 58 m 275,1 - 278,2 which 1 hour clock

negative position

$T = 65,0$

1 h. 2 m 34,5 202,3 - 349,2

4 m 45,1 207,2 344,8

6 m 55,5 211,3

Summ

Merom 15



122. 52m 150 463,3

1h. 8m 400 117,7

T=16m 160 25m 100 322,8

" 41m 100 202,4

" 57m 200 278,1

1345,6

1205,1

1120,4

175,6

10,1570

10,1587

10,628

247,3

246,9

248,7

Dilatation 5 h. 28 m 220,0 nagy átlék

Merom 16. 8h 229

Átk. 250. 8h. 10m 250 477,8

T=16m 160 9h. 15m 300 275,6

16m 160 9h. 31m 350 230,0

16m 0, 10h 3m 350 242,2

20m

52m

477,8

275,6

230,0

242,2

252,0

249,0

11h.

15m

247,0

Merotilitum.

12h. 27

1h. 45

Dim.

4h. 44

5h. 10m

241

239

231,1

233,2

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nyitva a fű

Kin balra

5h. 12m 130 357,8

13m 200 236,8

14m 200 352,2

29m 80 262,9

30m 150 329,8

31m 250 265,7

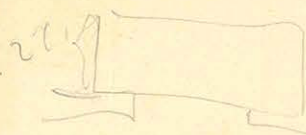
Kin balra és jobbra is

5h 33m 450 180,8

34m 200 290,6

35m 0, 183,2

Kit udvater ja 5 h. 37 h. 37 h. 37 h. 37 h.



T=17m 240	19m 24,5	300	6 h.	10 m	2 s	16m 18,5	17m 29	17m
		250	"	"	32 s			
		200	"	11 m	4,5 s			
T=18m 480	15m 30	200	6 h.	27 m	23 s	21m 18,5	18m 19,5	18m
		250	6 h.	28 m	21 s			
		300	6 h.	29 m	23,5 s			
		6 h.	36 m	20 s	471,6 x			
		300	6 h.	44 m	53,5			
T=19m 200	19m 45	250	"	46 m	40,5 s	357,4	0,526	46m 59,0
		300	"	48 m	41,5			
		6 h.	55 m	15 s	120,2 x			
		7 h.	14 m	35 s	304,9			
		"	34 m	20 s	209,7			
T=19m 400	19m 400	7	54 m	0 s	259,2	79,5	0,520	54m 242,2

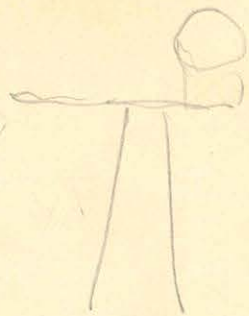
Miner 17. r. 8 h. 10 243,2

Ugje be kuter alfermiser

Kings T=18m 400	8 h.	19 m	45 s	465,7	1256,1	0,521	52,1	0,527	52m 243,5
	9 h.	15 m	45 s	209,6					
T=18m 400	9 h.	34 m	35 s	261,7		28,0	28,0	0,520	34m 242,2
	9 h.	54	0 s	233,7					

Salat belat yiteler er

T=16m 200	10 h.	41 m	25 s	-13	1411,1	0,575	57,5	0,622	57m 248,1
	"	57 m	45 s	398,1					
T=15m 55	"	13 m	40 s	161,9	1236,2	146,5	146,5	0,622	13m 252,3
	"	29 m	40 s	308,4					
T=16m 00	"	45 m	0 s	222,6					
	"								



keppide varty var, kurgudel

300 12h 9m 14,5 s
250 12h 10m 5 s
200 12h 16m 59 s

12h. 17m 300 10,9 s

T = 16m 25 s.

200 12h. 25m 29 s

250 12h. 26m 55,5 s

300 12h. 28m 29 s

12h. 34m 50 387,9

T = 15m 40 s.

" 49m 45 174,7

T = 16,6

1h. 5 45 307,2

377,0

0,571 s m 250,8

215,2

194,5

10,634 s m 255,2

algha m 1h



Kennel fõdve

T = 16m 40 s 1h. 31m 45 s 71,2

48m 25 355,0

T = 16m 0 s 2h. 4m 25 190,4

16m 15 s " 20m 40 288,4

283,8

164,6

98,0

2=0,584 s m 250,8

2=0,595 s m 252,0

Rehenim fin mul fõdve

7 m 4 h. 6 m 249,8

keppide kurgudel

4h. 33m 25 s 47,1

T = 17m 8 s " 50m 35 s 352,0

7m 40 s 189,4

24m 50 277,9

304,9

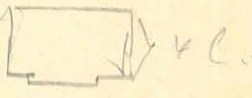
162,6

88,5

10,533 s m 245,9

10,544 s m 246,7

Kõik 16. 4 Continuumes fin jõuand kurgudel



17m 55 s 4h. 33m 45 s 480,3

" 57m 40 s 119,2

5h. 9m 35 312,3

136,1

Két jétkészleten jár.

Maxim 18 reggel 7h. 45 - - - 247,0 legkevesebb

11h 4c.

8h 11m 00 15,5

T=17h 30s. előadás után 9h 7m 275 más nagy vízre

9h 21m 00 229,0

Két fa jétkészlet, belvöl



T=19m 30 9h

48m 70 79 372,4

T=20m 20s. 10h

7m 100 374,3 192,4 0,576 sm 246,5

T=21m 00 11h

27m 300 187,9 98,6 0,572 sm 247,1

T=21m 20s. 11h

48m 300 280,5 47,4 0,481 sm 247,8

49m 500 233,1

Két pumpa jétkészlet

T=16m 45s. 11h

53m 400 -15

12h

10m 250 388,2 1403,2 0,550 sm 245,0

T=16m 40s

11h

27m 5 166,2 222,0

1h 0m 35 220,8

Két szélcsap jétkészlet

T=14m 50

1h

22m 300 56,7 337,5

T=15m 50

"

36m 350 394,2 1235,4 0,697 sm 246,4

T=16m 00

2h

7m 400 308,7

sötétben - D.n. 4h. 22 hrs 246,0

4h

57m 200 33,4 343

5h

14m 0 376,4 10,607 sm 247,0

30m

45

168,3

1208,1

10,619

247,9

47m

45

297,2

128,9

0,614

247,9

6h

44

50

218,3

78,9

0,614

247,9

22m

20

269,1

nyg

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KÖNYVTÁRA

Kedd. márc. 22.

8C. Nagy kőzet

Rostály kőzet

T=26m 15s 11 h. 36 m 45s 15,9

12 h. 3 m 0 303,4

" 33 m 30 137,6

34-30 m alapszintet kért addig stannol

T=28m 12 l. 57 m 25 304,5

1 h. 19 m 25 172,7

Kőzet el. anyag 3 stannol

1 h. 34 m 30s 306,6

49 m 0 217,2

Stannol 12. 57 m kőzet

1 h. 19 m nagy nagy a nagy felé 20s-ig

2. n. 5 h 1 m 225,0

Stannol a kőzetet munkát nagy felé

5 h 14 m 20s 143,0

T=21 m 45s

38 m elhárít 25,2 h a kőzet

5 h 57 m 50s 194,9

20 m 0 1 206,2

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Stannol kőzet felé

6 h. 28 m 50s 422,1

" 46 m 0 142,1

7 h. 3 m 10 306,9

T=17m 10s

Corr. 2,2
10,588
0,2
420,0
142,6
306,8
277,4
164,8
0,592
245,8

Stannol kőzet 8C. kőzet felé

T=17m 55s 7 h. 10 m 45s 491,6

28 m 40s 104,3

T=18m 25s 47 m 50s 323,2

T=18m 55s 8 h. 6 m 0 199,7

t=10°8C kőzet T=19m 8 h. 25 m 268,3

Stannol nagy 7 h. 20 m 244,2 t=10°2C. kőzet

T=17m 50 7 h. 48 m 50s 67,1

6 m 40s 346,2

T=17m 57s 0 m 30s 227,0

t 14 m 20 256,9

37 m 20 239,8

29,9
0,570
246,0
t=10°4C.

Valkorastamint maastul, upele laeja la hant.

10 h	3 m	150	82,1		
"	20 m	500	328,8		
17 m 450					
10 h	56 m	200	276,5	1,48,1	
17 m 500	14 m	100	228,4	1,0,580	246,0
	32 m	02	256,0	1,27,9	

□ Kõrval a fäimide fäim fäim ig hgy laeja la hant
a ngyrady vippe.

50 m	236,2		
12 h 7 m 200	246,2	110	242,5

Talvõis seini end a hant fäimide

talvõis a fäimide hant laeja la hant Thelova, t=1105

T=11 m	12 h	17 m	150	460,8	1344,8		
		28 m	150	146,0	1,0,701	277,1	
T=10 m 550		39 m	100	369,0	1,22,0		
		50 m	200	205,0	1,164	274,5	
1 h	2 m	20	318,1	1,113,1			

End a fäimide hant a.

1 h	18 m	100	208,4		
	26 h hant		271,6	hant	

A fäimide hant 80 C. 5 hant hant a hant
a hant fäimide hant.

1 h	41 m	40	383,0 x	
	44 m	20	378,2 x	fäim

46 m	384,9
47 m	393,0
48 m	402,9
49 m	416,6
50 m	430,0
51 m	443,7
52 m	456,0
53 m	466,0
54 m	473,0
55 m	476,6

1 h	55 m	450	477,0 x	fäim
-----	------	-----	---------	------

2 h	58 m	467,0		
	0 m	448,0		
	2 m	424,6		
	4 m	402,4		
	6 m	384,2		
	8 m	371,2		

10 m	361,3
12 m	353,5
14 m	346,5
16 m	339,1

et. d. n. 5 h. 44 - 248,0

jabotir en belot vichy paraffin leny, 5 h 45 h
 5 h. 46 h $T = 25$ secunda

254,0
 5 h. 48 h $T = 25$ secunda
 288,4
 254,2
 288,2

6 h. 13 h $T = 25$ s

6 h. 14 h $T = 25$ s
 280,2
 263,2
 280,1

Setur lampat vichy toz 6 h. 15 m h

6 h. 24 m h $T = 55$

25 m h $T = 55$
 278,2
 265,7
 278,15

lym lyg 27 h $T = 56$

312,7
 295,6
 311,7

Depo due Thamis allat

~~6 h. 32 h~~ Kizigehant leny 6 h. 32 h

44 m h ym lyg a lathu
 elath a lath

$T = 6$ m 50 6 h. 59 m 00 56,8
 1369,3

esth 7 h 5 m 50 426,1
 1288,7

$T = 5$ m 50 12 m 15 137,4 Kizigehant leny
 18 m 50 372,1234,7 266,8.

elath a lath

Can totat regit 7 h. 26 h 276,0 all to 9° 9

lathu kortu

regit 7 h 41 m 50 463,6

47 m 100 122,0

(5) 402 m vichy

$T = 5$ m 20 7 h. 57 m 45 168,4 x, 198,4

8 h 2 m 55 366,8 0,802 278,5

$T = 4$ m 55 7 m 50 267,6 159,2

Schulter längerer 10°1. Längs der allmählichen
 von 2 fächerförmig verbleibend 5 h. 55 h. 55

62 3 m 120 494,3
 T = 27 m 280 30 400 84,0 1410,3

62,54 m 285 m 285 m 285 m 285 m 285 m
 nach oben hin

by spring
 (219,0 m)

hohle tötten bei fächerförmig 2 h. 0 h.
 allmählich

Wichtig 279,4 m

279,4 m 25 h. 20 m 218,7 1 = 9°8
 279,4 m 25 h. 15 m 219,1 1 = 9°9
 279,4 m 25 h. 30 m 219,2

Kinatten 2 fächerförmig 9 h. 36 m 2 h. 36 m 2 h. 36 m 2 h. 36 m 2 h. 36 m 2 h. 36 m

9 h. 41 m 300 382,0 1249,8
 " 58 m 450 132,2 1015,44
 10 h. 15 m 50-550 268,0 135,8
 10 h. 35 m 50 194,9

Sept 97 October 18.

rygget 9 km. Kigjort a uellend
Lark allaywollen 9 h. 0 km uol

152,4

rygget 9 h. 7m --- 216,0

" 19 --- 220,0

" 23 --- 230,4

" 54 --- 231,4

12 h. 58m --- 235,0

betw. Daniell elevation

2 h. 5 h. 0 m 192,0.

Vign. rig elaklond

$b = 0$.

5 h. 5 m 157,0 all. rygget

$a = 20$ $b = 2$ al 10 m adu adu poluorm

$b = 0$.

5 h. 23 m $i = 68 \times 8,42$ $y = 100,0$

$$\frac{1}{2} = \arcsin \frac{0,4}{\sqrt{5,04}}$$

$$\frac{1}{2} = \arcsin \frac{3,6}{\sqrt{8,24}}$$

$$\frac{1}{2} = \frac{2}{1,8\sqrt{8,24}}$$

$$\frac{1}{2} = \arcsin \frac{2}{0,2\sqrt{5,04}}$$

$$(II - II) = \log \frac{\sqrt{4,24}}{\sqrt{1,04}} \frac{2 + \sqrt{5,04}}{2 + \sqrt{8,24}} = \frac{-1,073726}{-0,269992} + \frac{0,664787}{0,565205}$$

$$III - III = \log \frac{\sqrt{7,24}}{\sqrt{4,04}} \frac{1 + \sqrt{5,04}}{1 + \sqrt{8,24}}$$

$$\sqrt{5,04} = 2,24499$$

$$\sqrt{8,24} = 2,87054$$

$$\begin{array}{r} 0,702431 \\ 0,602060 - 1 \\ 0,351216 \\ 0,250844 - 1 \end{array}$$

$$10^{\circ} 6' 9''$$

$$\begin{array}{r} 0,174523 \\ 1745 \\ 44 \end{array}$$

$$\begin{array}{r} 0,176322 \\ 897414 \\ 1,073736 \end{array}$$

$$\begin{array}{r} 0,201030 \\ 915927 \\ 0,556303 \\ 0,457964 \\ 0,098339 \end{array}$$

$$\begin{array}{r} 5-1025'5'' \\ 0,890118 \\ 7272 \\ 24 \end{array}$$

$$0,897414$$

2

$$\begin{array}{r} 0,954243 - 1 \\ 0,457964 \\ 0,412207 \\ 0,587793 - 1 \end{array}$$

$$21^{\circ} 9' 29''$$

$$\begin{array}{r} 0,366519 \\ 2618 \\ 189 \end{array}$$

$$\begin{array}{r} 0,369326 \\ 2954608 \\ 664787 \end{array}$$

$$\begin{array}{r} 0,389950 - 1 \\ 0,637784 - 1 \\ 0,752206 - 1 \end{array}$$

$$\begin{array}{r} 0,351216 \\ 0,648784 \end{array}$$

$$77^{\circ} 20' 49''$$

$$\begin{array}{r} 1,343903 \\ 5818 \\ 238 \end{array}$$

$$\begin{array}{r} 1,349959 \\ 2699918 \end{array}$$

$$\begin{array}{r} 0,565205 \\ 1,030410 \\ 664787 \end{array}$$

$$\begin{array}{r} 0,627366 \\ 0,313683 \\ 0,627877 \\ 0,941560 \\ 696095 \\ 0,245465 \end{array}$$

$$\begin{array}{r} 0,017033 \\ 0,008517 \\ 0,687578 \\ 0,696095 \end{array}$$

$$\begin{array}{r} 0,859729 \\ 0,429869 \\ 0,511214 \end{array}$$

$$\begin{array}{r} 0,941083 \\ 0,587777 \\ 0,353306 \end{array}$$

$$\begin{array}{r} 0,840965 \\ 0,050120 \end{array}$$

$$\begin{array}{r} 0,606381 \\ 0,303191 \\ 0,587772 \end{array}$$

$$\begin{array}{r} 890963 \end{array}$$

$$\begin{array}{r} 0,700011 - 2 \\ 627784 - 1 \\ 0,062227 - 1 \end{array}$$

$$0,115406$$

$$\begin{array}{r} 0,230812 \\ 565205 \\ 664787 \end{array}$$

$$\begin{array}{r} 1,460804 \\ 269992 \\ 1,190812 \end{array}$$

$$\begin{array}{r} 0,548751 - 1 \\ 0,627784 - 1 \\ 0,910367 - 1 \\ 0,813178 \end{array}$$

$$\begin{array}{r} 1,627036 \\ 565205 \\ 664787 \end{array}$$

$$\begin{array}{r} 2,857028 \\ 0,269992 \\ 2,587036 \end{array}$$

$$\begin{array}{r} 2,87448 \\ 107274 \\ 1,80074 \end{array}$$

$$\begin{array}{r} 1,488515 \\ 1,073726 \\ 0,414779 \end{array}$$

15

12

0,925570
 1,466126
 2,391696
 2,704129
 0,687567 - 1
 25° 58' 5"
 0,406332
 0,016872
 0,000024
 0,453228

0,925570
 1,520215
 2,455785

1,172914
 1,520215
 2,704129
~~1,172914~~
 1,220924
 1,466126
 2,797050
 4,767301
 0,029749

2,640040
 2,455785
 0,184255

1,172914
 1,520387
 2,767301
 46° 57' 39"
 0,802851
 0,016581
 0,000189
 0,819621

56° 48' 19"

0,977284
 0,013963
 0,000092
 0,991439

1,172914
 1,466126
 2,640040
 2,924011
 0,715729 - 1
 1,320924
 1,520387
 2,924311

27° 27' 34"

0,471279
 0,007854
 0,000165
 47,9258

99,899612
 46,281118
 64,669412
 64,938812
 31,86773
 62,409018

445,926
 126,01
 70,981
 855,558

009,4181
 207,654
 855,558

114,6111
 855,558
 207,654
 186,101
 222,750

186,101
 201,981
 222,750

186,101
 201,981
 222,750

153,71851
 855,558
 207,654
 222,750

584,6290
 455,558
 121,4101

0,240876 - 2
 92,19911
 1,466126
 0,774750 - 4

222,750
 207,654
 0,000000

4 - 228,7446
 207,654
 0,76490 - 6

4 - 65,18646
 52,48611
 9 - 10,666810

48,2656
 60,6011
 40,0909
 51,6871
 28,3311
 2,71391
 64,34091
 22,24228

99,9666
 64,6811
 21,7172
 66,90886
 52,12151
 2,347828

$$\begin{array}{r} 33,9012 \\ 29,125 \\ \hline 63,1512 \end{array}$$

$$\begin{array}{r} 39,2099 \\ 29,125 \\ \hline 68,4599 \end{array}$$

$$\begin{array}{r} 63,1512 \\ \hline 68,4599 \end{array}$$

$$\begin{array}{r} 1,232975 \\ 1,875426 \\ \hline 3,069411 \end{array}$$

$$\begin{array}{r} 1,416825 \\ 1,800081 \\ \hline 3,217206 \\ 2,069411 \\ \hline 0,147795 \end{array}$$

$$\begin{array}{r} 0,169660 - 1 \\ 637784 - 1 \\ \hline 0,591876 - 1 \end{array}$$

$$\begin{array}{r} 48,8262 \\ \hline 54,1249 \end{array}$$

$$\begin{array}{r} 33,9012 \\ 14,925 \\ \hline 48,8262 \end{array}$$

$$\begin{array}{r} 14,925 \\ 29,2099 \\ \hline 54,1349 \end{array}$$

$$\begin{array}{r} 1,559297 \\ 1,688652 \\ \hline 3,248050 \\ 0,216910 \\ \hline 0,031140 \end{array}$$

$$\begin{array}{r} 1,483432 \\ 1,722477 \\ \hline 3,216910 \end{array}$$

$$\begin{array}{r} 0,492219 - 2 \\ 637784 - 1 \\ \hline 0,755535 - 2 \end{array}$$

$$\begin{array}{r} 127288 \\ 181016 \\ \hline 582121 \\ 127285 \\ \hline 0,53771 \end{array}$$

187

$$\begin{array}{r} 1,070728 \\ 0,872912 \\ \hline 0,257815 \end{array}$$

$$0,872912$$

$$\begin{array}{r} 0,755535 - 2 \\ 1,466126 \\ \hline 0,221665 \end{array}$$

$$\begin{array}{r} 1,170914 \\ 0,531876 - 1 \\ \hline 0,639038 \end{array}$$

$$\begin{array}{r} 0,925520 \\ 0,996265 - 1 \\ \hline 0,921835 \end{array}$$

$$\begin{array}{r} 1,445775 \\ 0,680569 - 1 \\ \hline 4,89214 \end{array}$$

$$\begin{array}{r} 1,070728 \\ 1,174735 \\ \hline 0,957258 - 1 \end{array}$$

$$\begin{array}{r} 13,3765 \\ 59281 \\ \hline 416705 \\ 1,66596 \\ \hline 20,12162 \\ 8,13529 \\ \hline 11,7687 \end{array}$$

$$\begin{array}{r} 18,3765 \\ + 8,13529 \\ \hline 62,5818 - \end{array}$$

$$\begin{array}{r} 0,452228 \\ 129618 \\ \hline 1,272849 \\ + 0,906270 \end{array}$$

$$-\left\{\frac{1}{2}\right\} \quad 1 \quad 5$$

$$-0,927718 + \frac{1}{2} \begin{bmatrix} 0,643502 \\ 0,638915 \\ \hline 269228 \end{bmatrix}$$

$$\frac{\sqrt{(1+L)^2+1}}{\sqrt{(1-L)^2+1}} \cdot \frac{2+\sqrt{5+(1-L)^2}}{2+\sqrt{5+(1+L)^2}} = \frac{1,551645}{927318} = \frac{624327}{24}$$

$$1,0 \quad 2 = \arctan \frac{4}{3}$$

$$3 = \arctan \frac{1}{8}$$

$$\frac{624351}{2}$$

$$\begin{array}{r} 0,602060 \\ 477121 \\ \hline 0,124939 \\ 53^\circ 7' 53'' \end{array}$$

$$\begin{array}{r} 925025 \\ 2056 \\ 257 \\ \hline 927318 \\ 921294 \end{array}$$

$$\begin{array}{r} 0,766874-2 \\ 2,637784-1 \\ \hline 0,129090 \end{array}$$

$$\begin{array}{r} 0,222222 \\ 0,522879-1 \end{array}$$

$$18^\circ 26' 6''$$

$$\begin{array}{r} 314159 \\ 7563 \\ 29 \\ \hline 321751 \end{array}$$

$$\begin{array}{r} 134614 \\ 269228 \end{array}$$

$$\log \frac{\sqrt{5}}{5} \cdot \frac{2+\sqrt{5}}{5} = \frac{2+\sqrt{5}}{\sqrt{5}}$$

$$\log \frac{\sqrt{8}}{2} \cdot \frac{1+\sqrt{5}}{2} = \frac{1+\sqrt{5}}{\sqrt{8}}$$

$$\begin{array}{r} 0,698970 \\ 0,626962 \\ 0,349485 \\ \hline 0,217477 \end{array}$$

$$\begin{array}{r} 0,442227-1 \\ 0,627784-1 \\ \hline 0,805443-1 \end{array}$$

$$907090$$

$$4,23606$$

$$0,638915$$

$$3,22606$$

$$\begin{array}{r} 0,510017 \\ 451545 \\ \hline 0,558462 \end{array}$$

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$$\begin{array}{r} 58 \\ 27 \\ \hline 174 \\ 146 \\ \hline 1334 \end{array}$$

$$X = - \left(\int_{\log \frac{b}{c}}^{a-l} \frac{1}{b} \right) = - \int_{\log \frac{b}{c}}^{a-l} \frac{1}{b} + \int_{\log \frac{b}{c}}^{a-l} \frac{1}{b} \varphi^2 \left(\frac{1}{S[(a-l)^2+b^2]} - \frac{1}{S'[(a-l)^2+b^2]} \right) \varphi^2$$

$$X = -4/5 \left\{ (a+l) \int_{\log \frac{b}{c}}^{a+l} \frac{1}{b} + b \int_{\log \frac{b}{c}}^{a+l} \frac{1}{b} + c \int_{\log \frac{b}{c}}^{a+l} \frac{1}{b} - (a-l) \int_{\log \frac{b}{c}}^{a-l} \frac{1}{b} - b \int_{\log \frac{b}{c}}^{a-l} \frac{1}{b} - c \int_{\log \frac{b}{c}}^{a-l} \frac{1}{b} \right\}$$

$$+ 2/5 \varphi^2 \int_{\log \frac{b}{c}}^{a-l} \frac{1}{b} + 2/5 b \varphi^2 \left(\frac{1}{S[(a-l)^2+b^2]} - \frac{1}{S'[(a-l)^2+b^2]} \right) \varphi^2$$

$$\varphi - \frac{1}{5} \varphi^2$$

$$\log \sqrt{(a+l)^2+b^2} + \log(c + \sqrt{b^2+c^2}) - \log b - \log(c + \sqrt{(a+l)^2+b^2+c^2})$$

$$\frac{b}{\sqrt{(a+l)^2+b^2}} + \frac{b}{(c + \sqrt{b^2+c^2})\sqrt{b^2+c^2}} - \frac{1}{b} - \frac{b}{(c + S')S'}$$

$$\frac{b}{\sqrt{(a-l)^2+b^2}} + \frac{b}{(c + \sqrt{b^2+c^2})\sqrt{b^2+c^2}} - \frac{1}{b} - \frac{1}{(c + S)S}$$

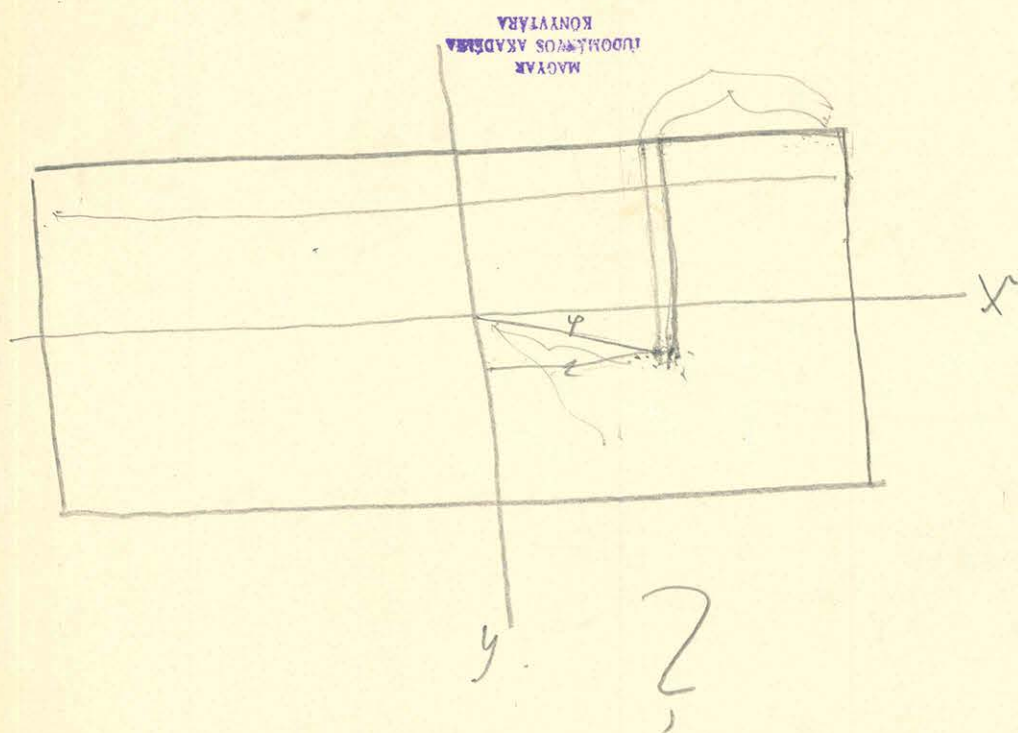
$$b \left(\frac{c}{S[(a-l)^2+b^2]} - \frac{c}{S'[(a+l)^2+b^2]} \right)$$

$$X' = f \sigma \arctan \frac{bc}{as} \cdot 2 \sin \varphi + f \sigma \frac{2}{6} 2 l^3 \sin^3 \varphi \frac{abc}{(a^2 s^2 + b^2 c^2) s} \left\{ -\gamma + 2 \frac{(a^2 + s^2)^2}{a^2 s^2 + b^2 c^2} + \frac{a^2 + s^2}{s^2} \right\} + G$$

$$s^2 = a^2 + b^2 + c^2$$

hogy a kis körökhöz viszonyítva

$$G = f \sigma \frac{1}{6} l \varphi^2 \left[\prod_c^{a+l\varphi} \prod_c^{b-l\varphi} - \prod_c^{a-l\varphi} \prod_c^{b+l\varphi} - \prod_c^{a+l\varphi} \prod_c^{b+l\varphi} + \prod_c^{a-l\varphi} \prod_c^{b-l\varphi} \right]$$



$$s^2 = (a-l)^2 + b^2 + c^2$$

$$s'^2 = (a+l)^2 + b^2 + c^2$$

$$y = -f \sigma \left(\int_{-c}^b \frac{1}{a-l} + \int_{-c}^b \frac{1}{a+l} \right) 2 \sin \varphi - 4 f \sigma \frac{1}{6} l^3 \sin^3 \varphi \frac{(a-l)bc}{(b^2 s^2 + (a-l)^2 c^2) s} \left\{ -\gamma + 2 \frac{(b^2 + s^2)^2}{b^2 s^2 + (a-l)^2 c^2} + \frac{b^2 + s^2}{s^2} \right\} + \frac{(a+l)bc}{(b^2 s'^2 + (a+l)^2 c^2) s'} \left\{ -\gamma + 2 \frac{(b^2 + s'^2)^2}{b^2 s'^2 + (a+l)^2 c^2} + \frac{b^2 + s'^2}{s'^2} \right\}$$

$$- f \sigma l \varphi^2 \left[\prod_c^{a+l\varphi} \prod_c^{b-l\varphi} - \prod_c^{a-l\varphi} \prod_c^{b+l\varphi} - \prod_c^{a+l\varphi} \prod_c^{b+l\varphi} + \prod_c^{a-l\varphi} \prod_c^{b-l\varphi} \right]$$

$$- f \sigma l \varphi^2 \left[\prod_c^{b+l\varphi} \prod_c^{a-l\varphi} - \prod_c^{b-l\varphi} \prod_c^{a+l\varphi} - \prod_c^{b+l\varphi} \prod_c^{a+l\varphi} + \prod_c^{b-l\varphi} \prod_c^{a-l\varphi} \right]$$

$$\left[\right] = \left[2bl\varphi \left/ \frac{1}{(a-l)^2 + b^2} - \frac{1}{(c+s)s} - \frac{1}{(a+l)^2 + b^2} + \frac{1}{(c+s')s'} \right] \right]$$

I log II hat.

2

$$\begin{array}{r} 35 \text{ cm.} \quad 619,7120 \\ \quad \quad 618,5570 \\ \hline \quad \quad 1,1550 \end{array}$$

+ 1,2

$$\underline{\underline{0,5775 \text{ gr.}}}$$

$$\begin{array}{r} -4,5 \\ 2,1 \\ -4,5 \\ \hline -1,2 \end{array}$$

45 cm.

$$\begin{array}{r} 45 \text{ cm.} \quad 618,9150 \\ \quad \quad 619,3462 \\ \hline \quad \quad 0,4312 \end{array}$$

$$\begin{array}{r} -2 \\ 0,6 \\ -2 \\ \hline -0,8 \end{array}$$

$$\underline{\underline{0,2156 \text{ g.}}}$$

I. log, III. hat.

$$\begin{array}{r} 35 \text{ cm.} \quad 619,4730 \\ \quad \quad 618,7813 \\ \hline \quad \quad 0,6917 \end{array}$$

$$\begin{array}{r} 2,8 \\ -3,0 \\ 2,6 \\ \hline -0,15 \end{array}$$

$$\underline{\underline{0,3459 \text{ g.}}}$$

45 cm.

$$\begin{array}{r} 618,9990 \\ 619,2557 \\ \hline 0,2567 \end{array}$$

$$\begin{array}{r} -3,5 \\ 0,0 \\ -3,5 \\ \hline -1,75 \end{array}$$

$$\underline{\underline{0,1284 \text{ g.}}}$$

$$\begin{array}{r} 2,4 \\ 1,6 \\ \hline 4,0 \end{array}$$

II. log, III. hat.

$$\begin{array}{r} 35 \text{ cm.} \quad 620,3800 \\ \quad \quad 621,0060 \\ \hline \quad \quad 0,6260 \end{array}$$

$$\begin{array}{r} 3,0 \\ -3,6 \\ 2,9 \\ \hline 2,95 \end{array}$$

$$\underline{\underline{0,3130 \text{ g.}}}$$

$$\begin{array}{r} -0,3 \end{array}$$

$$\begin{array}{r} 6,0 \\ -3,0 \\ 6,0 \\ \hline 11,5 \end{array}$$

45 cm.

$$\begin{array}{r} 620,8080 \\ 620,5779 \\ \hline 0,2301 \end{array}$$

$$\begin{array}{r} -0,3 \end{array}$$

$$\begin{array}{r} 1,9 \\ -3,4 \\ 11,8 \end{array}$$

$$\underline{\underline{0,1151 \text{ g.}}}$$

$$\begin{array}{r} 3,2 \\ -2,0 \\ 3,2 \\ \hline +0,6 \end{array}$$

$$m_1 m_2 = \frac{P_{12} r^4}{3}$$

$r = 25 \text{ cm}$

$$m_1 m_2 = 283,071,442$$

$$m_2 m_3 = 153,422,271$$

$$m_3 m_1 = 169,548,765$$

$$m_1 = 17,823$$

$$m_2 = 16,047$$

$$m_3 = 9,597$$

$r = 45 \text{ cm}$

$$m_1 m_2 = 288,804,393$$

$$m_2 m_3 = 154,180,824$$

$$m_3 m_1 = 171,996,679$$

$$m_1 m_2 = 286,10^6$$

$$m_2 m_3 = 154,10^6$$

$$m_3 m_1 = 171,10^6$$

$$\begin{array}{r} -8,8 \\ +5,8 \\ -8,8 \end{array}$$

$$\begin{array}{r} -1,5 \end{array}$$

$$\begin{aligned}
 1-2 & -1,0615 CA + 0,8938 ZAC = +0,01571 \\
 2-3 & +0,8762 CA + 1,0970 ZAC = +0,01031 \\
 3-4 & -1,1147 CA + 0,9076 ZAC = +0,01690 \\
 1-4 & +0,9294 CA + 1,0832 ZAC = +0,00912
 \end{aligned}$$

123
234
412

123
142
142

$$\begin{aligned}
 +1,12678 CA + 0,94877 ZAC & = -0,016676 \\
 +0,76773 CA + 0,96119 ZAC & = +0,009034 \\
 +1,24256 CA - 1,01170 ZAC & = -0,018950 \\
 +0,86278 CA + 1,00673 ZAC & = +0,008476
 \end{aligned}$$

$$\begin{array}{r}
 0,017510 \quad 1,96792 \\
 0,035626 \quad 1,26047 \\
 \hline
 -0,018116 \quad 0,00745
 \end{array}$$

$$4,00085 CA + 0,00745 ZAC = -0,018116$$

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$$\begin{aligned}
 +0,79888 ZAC & = +0,014042 \\
 +1,12034 ZAC & = +0,011210 \\
 +0,82274 ZAC & = +0,015388 \\
 +1,17332 ZAC & = +0,009879
 \end{aligned}$$

$$+0,00745 ZAC + 3,91628 ZAC = 0,050569 \quad 2)$$

$$\begin{aligned}
 1 \quad & 3,91628 \cdot 4,00085 - 0,00745 \\
 AC = & \frac{3,91628 \cdot 0,018116 - 0,00745 \cdot 0,050569}{0,000034}
 \end{aligned}$$

$$\begin{aligned}
 ZAC & = - \frac{0,070947 + 0,0000377}{15,66844 - 0,00005} \\
 & \quad \begin{array}{r} 0,070947 \\ 0,0000377 \\ \hline 0,071324 \end{array}
 \end{aligned}$$

$$\begin{aligned}
 CA & = -0,0045521 \\
 ZAC & = +0,012885
 \end{aligned}$$

$$\begin{aligned}
 & -0,018212 \\
 & \quad 18116 \\
 & \quad \hline
 & \quad 0,000096
 \end{aligned}$$

$$0,012885$$

$$\begin{aligned}
 & 0,050462 \\
 & -0,000034 \\
 \hline
 & 0,050428
 \end{aligned}$$

$$\begin{aligned}
 +0,048219 + 0,011517 & = 0,059736 \\
 -0,039884 + 0,014135 & = 0,019851 \\
 +0,050741 + 0,011694 & = 0,062435 \\
 -0,042306 + 0,013957 & = 0,008131
 \end{aligned}$$

$$\begin{array}{r}
 14135 \\
 3988 \\
 \hline
 10147
 \end{array}$$

$$0,011517$$

$$\begin{array}{r}
 11644 \\
 5074 \\
 \hline
 6768
 \end{array}$$

$$\begin{array}{r}
 12957 \\
 4250 \\
 \hline
 9727
 \end{array}$$

$$\frac{0,07401 \times 1,1479 - 0,00611 \times 0,8365}{-1,0023 \times 1,1479 - 0,8112 \times 0,8365}$$

$$= \frac{0,084956 - 0,005111}{-1,15054 - 0,67857}$$

$$\begin{array}{r} 7401 \\ 0,042752 \\ \hline 0,00026 \end{array}$$

$$\begin{array}{r} 5111 \\ 0,079845 \\ \hline 1,82911 \end{array}$$

$$CA = -0,043652$$

$$2CB = +0,036174$$

$$\begin{array}{r} 0041524 \\ -0,035411 \\ \hline 0,006113 \end{array}$$

$$-0,00678 = 1,0 + 0,9843 CA + 1,0006.2CB$$

$$\begin{array}{r} -0,042967 \\ 0,036197 \\ \hline 0,006770 \end{array}$$

2

$$\frac{\partial x}{\partial y} = -$$

$$CH = +0,01808$$

$$D = 0,01808$$

$$0,0000439$$

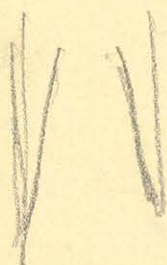
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$$\left\{ \begin{array}{l} \frac{\partial X}{\partial x} + \frac{\partial X}{\partial z} = + 4,46 \cdot 10^{-6} \\ \frac{\partial X}{\partial x} + \frac{\partial y}{\partial z} = - 35,68 \cdot 10^{-6} \\ \frac{\partial X}{\partial x} - \frac{\partial X}{\partial z} = - 35,87 \cdot 10^{-6} \\ \frac{\partial y}{\partial x} - \frac{\partial y}{\partial z} = - 23,85 \cdot 10^{-6} \end{array} \right.$$

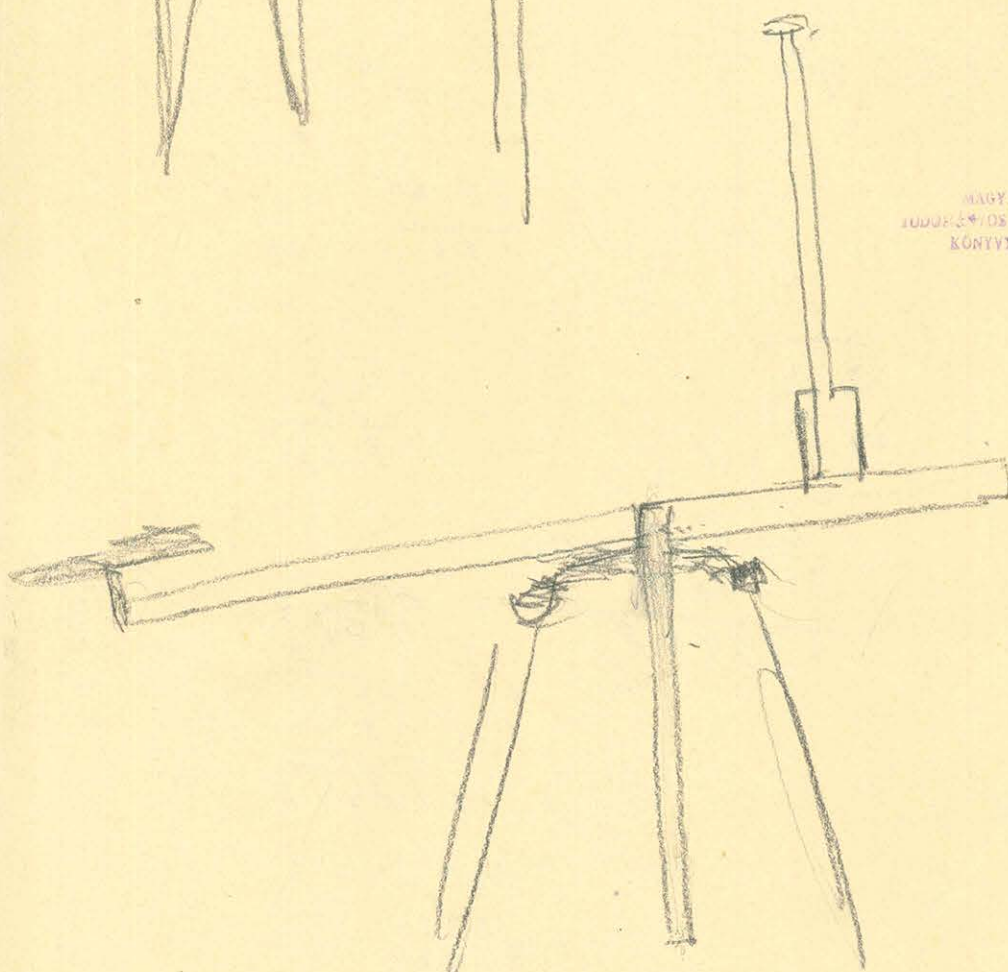
$$\begin{array}{r} 31,41 \\ - 15,71 \\ \hline 15,70 \\ 19,53 \\ 22,77 \\ 40,33 \\ 1183 \end{array}$$

28000

9000.



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1900. évi 3. évf.
2. kötet 2. c.
Platón

$$\begin{array}{r} 1225 \\ 2025 \\ \hline 800 \end{array}$$

$$35^4 = 1500625$$

$$45^4 = 4100625$$

$$\frac{35^4}{3} = 500208 \quad \frac{35^4}{3} \cdot \frac{a}{100} = 490504$$

$$\frac{45^4}{3} = 1366875 \quad \frac{45^4}{3} \cdot \frac{a}{100} = 1340358$$

$$F = A \left(1 + \frac{a}{r^2} \right)$$

$$F_{\infty} = A$$



$$F_{35} = A \left(1 + \frac{a}{35^2} \right)$$

$$F_{45} = A \left(1 + \frac{a}{45^2} \right)$$

$$3038 / 3072 = 1.01$$

$$\frac{F_{35}}{F_{45}} = \frac{1 + \frac{a}{35^2}}{1 + \frac{a}{45^2}} = 1.01$$

$$1 + \frac{a}{35^2} = 1.01 + 1.01 \frac{a}{45^2}$$

$$\frac{a}{35^2} - \frac{a}{45^2} = 0.01$$

$$a \frac{800}{2480625} = 901$$

$$\frac{24806}{810} \quad \underline{31}$$

$$F_{\infty} = F_{45} \frac{1}{1 + \frac{a}{45^2}}$$

$$\frac{31}{2025} = \frac{1}{65.15}$$

$$\begin{array}{r} 303819000 \\ 4558 \\ \hline 299308 \end{array}$$

$$327.360.000$$

$$1 \quad 180,93$$

$$\begin{array}{r} 1323 \\ 664 \\ \hline 1987 \\ 132964 \\ \hline 130970 \end{array}$$

$$\begin{array}{r} 2181 \\ 145429 \\ \hline 143248 \end{array}$$

40358

~~15236~~
15236
0,070624

18174

$$\begin{array}{r} 0,0767 \\ 465 \\ \hline 0,0302 \\ \hline 9882. \end{array}$$

$$\begin{array}{r} 15276 \\ 10624 \\ \hline 0,03612 \end{array}$$

$$\begin{array}{r} 0,9767 \\ 178 \\ \hline 0,0589 \end{array}$$

0.10624.

$$\begin{array}{r} 1,6835 \\ 8984 \\ \hline 2,5819 \end{array}$$

$$\begin{array}{r} 1.6825 \\ 0.898 \\ \hline 1.7733 \end{array}$$

$$\begin{array}{r} -0,14174 \\ \hline 9,8984 + 1,6838 \\ 8984 \\ \hline 2,5819 \end{array}$$

0,
- 0,00499

$$\begin{array}{r} 0,08984 \\ 1,6835 \\ \hline 1,7733 \end{array}$$

$$\begin{array}{r} 0,11837 \\ - 0,00185 \\ \hline 1,1652 \end{array}$$

0,04612

$$\begin{array}{r} 767 \\ 0,07514 \\ \hline 0,0616 \end{array}$$

$$\begin{array}{r} 767 \\ 9,02289 \\ \hline 9,05381 \end{array}$$

0767
2205
0,05475.

~~1084~~
- 0,002364

~~Chas. O.~~

$$CA = -9,95490$$

2668 Z + 0003096

~~CA = -0,02037~~

~~2Ch = +0,05959~~

CA = -0.01786

$$2C\phi = +0,06237$$

$$\Delta = 0,92701$$

~~$2CD = +0,05445$~~

$$CA = -0,02601$$

~~CCB-10,05479~~

$$2CH = +0,05535.$$

124
- 0,00162

10876
- 0,00245
0,10571

10995

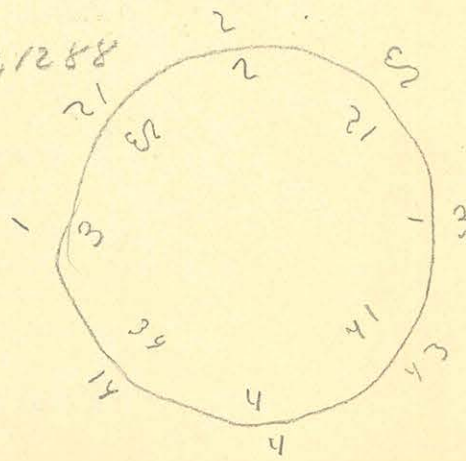
0,002764

91076

$$0,0645 = -1,9916 \text{ CA} - 2 \text{ CB} \quad 0,1288$$

$$= +0,05180 - 0,007129$$

0,05893



4145
2635
1510
170
78.

78,5 / 7000 / 892
6280
7200
7065
1350

50.

8
 $\sqrt{7^2 + 78^2}$
7000
6084
49
6133
78,2.

1,83727
21761
05488
11,3

1,83727
99400
1,83127
67,8

1,59329
45334
04063
11,1

59329
98174
57503
37,6

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012
001
120
040

21540'0 / 0,04312

220.2

248

0824
4280
2118
8112
0416
6556
5270

4846 / 5291 / 6201

016
610
1719
1810
5181
566 / 495
38710

024
80
9801

0166 / 2106 / 9450 / 8018001

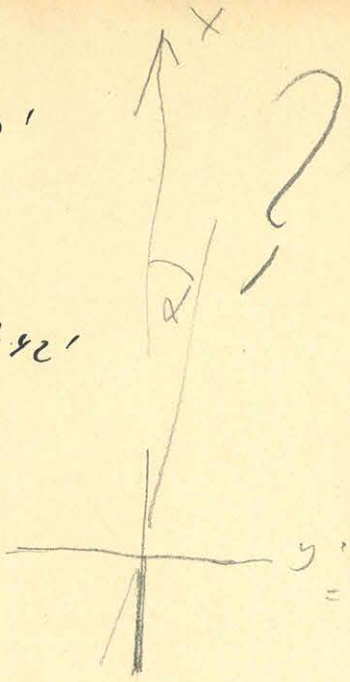
131 18
262 36
7 24

1° 46'
88 14'

3° 42' 5° 42'
135
185°

169° 54'
10 6'

269 54



$$F = \frac{1}{2} M \left(\frac{\partial^2 V}{\partial y^2} - \frac{\partial^2 V}{\partial x^2} \right) \sin 2\alpha + \frac{2}{I} M \frac{\partial^2 V}{\partial x \partial y} \cos 2\alpha$$

$$\frac{1}{2} M = C$$

$$F = \frac{1}{2} C \left(\frac{\partial^2 V}{\partial y^2} - \frac{\partial^2 V}{\partial x^2} \right) \sin 2\alpha + 2 C \frac{\partial^2 V}{\partial x \partial y} \cos 2\alpha$$

$$\text{Ezért } \frac{F}{C} = +0,0767$$

$$0,0767 = C \left(\frac{\partial^2 V}{\partial y^2} - \frac{\partial^2 V}{\partial x^2} \right)$$

$$1) -k + 0,0767 = C \cdot A \cdot 0,1525 + 2 C B \cdot 0,9883$$

$$2) -k = C A$$

$$3) -k - 0,0308 = C A \cdot 0,0616 - 2 C B \cdot 0,9981$$

$$4) -k + 0,0645 = -C A \cdot 0,9916 - 2 C B \cdot 0,1288$$

$$\begin{cases} 0,0767 = 0,1525 C A + 2 C B \cdot 0,9883 \\ 0,1075 = 0,0616 C A + 2 C B \cdot 0,9981 \end{cases} \begin{matrix} 1,9864 \\ 0,9883 \end{matrix}$$

$$\begin{cases} C A = -0,02601 \\ 2 C B = +0,05535 \end{cases}$$

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$$1) 0,0767 - k = C A \cdot 0,0634 + 2 C B \cdot 0,9980$$

$$2) -k = C A \cdot 0,9963 + 2 C B \cdot 0,0860$$

$$3) -0,0308 - k = +0,1472 C A - 2 C B \cdot 0,9891$$

$$4) +0,0645 - k = -0,9991 C A + 2 C B \cdot 0,0430$$

$$0,0645 - 1,9954 C A$$

$$\begin{array}{l} + 0,0747 = -0,9329 CA + 0,9120 \cdot 2CD \quad | \quad 1,0751 \\ + 0,0380 = +0,8491 CA + 1,0751 \cdot 2CD \quad | \quad 0,9120 \end{array}$$

$$CA = - \frac{0,0747 \times 1,0751 - 0,912 \times 0,038}{0,9329 \times 1,0751 + 0,8491 \times 0,9120} = - \frac{0,08031 - 0,03466}{1,00296 + 0,77478}$$

$$\begin{array}{r} 07470 \\ 0,02396 \\ \hline 0,05074 \end{array}$$

$$0,02565$$

$$\left. \begin{array}{l} j_{12} \\ \text{CD} 12361 \end{array} \right\} CA = - \frac{0,04565}{1,177134} = -0,02568$$

$$= +0,05564$$

$$\begin{array}{r} 59818 \\ 0,021805 \end{array}$$

MAGYAR TUDOMÁNYOS AKADEMIA KÖNYVTÁRA

$$\begin{array}{r} 28013 \end{array}$$

$$\begin{array}{l} 0,0747 = -0,9329 CA + 0,9120 \cdot 2CD \quad | \\ 0,0645 = -1,5954 CA - 0,0430 \cdot 2CD \quad | \end{array}$$

$$- \frac{110 \text{ mm}}{2000 \text{ m}}$$

$$\begin{array}{r} 213/1620/760 \\ 1991 \\ 1290 \\ 1065 \\ 1278 \\ 120 \end{array}$$

$$\begin{array}{l} 50 \cdot 10^{-6} \cdot C = \frac{1}{50} \quad \frac{1}{C} = \\ A \quad C = -\frac{1}{40} \\ A = - \quad A = - \frac{1500}{40} \cdot 10^{-6} \end{array}$$

$$\frac{162000}{2130 \text{ m}}$$

$$40133$$

$$\begin{array}{r} 31300 \quad | 76000 \quad | 0,002428 \\ 1626 \\ 1340 \\ 1252 \\ 880 \\ 626 \\ \hline 2540 \end{array}$$

$$C \cdot \frac{76}{m} = 0,0373$$

$$\frac{1}{C} =$$

$$\begin{array}{r} 0,028 \\ 0,0024 \\ 112 \\ 56 \\ \hline 0,000672 \end{array}$$

$$\begin{array}{r} 157 \\ 54 \\ \hline 788 \\ 985 \\ \hline 10638 \end{array}$$

$$\begin{array}{r} 28809 \\ 324 \\ \hline 29133 \end{array}$$

$$\begin{array}{r} 77618 \\ 10628 \\ \hline 88256 \\ 224 \\ \hline 87932 \end{array}$$

$$\begin{array}{r} 54289 \\ 224 \\ \hline 54613 \end{array}$$

$$\begin{array}{r} 108578 \\ 324 \\ \hline 108254 \\ 12582 \\ \hline 95672 \end{array}$$

$$\begin{array}{r} 222 \\ 54 \\ \hline 932 \\ 1165 \\ \hline 12582 \\ 18 \end{array}$$

$$\begin{array}{r} 2,2224285 \\ 1,2552725 \\ \hline 9,3297530 \\ \hline 0,9255195 - 9 \end{array}$$

84,2402

$$-\frac{287}{(29122)^{\frac{5}{2}}} + \frac{895.87922}{(39122)^{\frac{7}{2}}} = 56,9110 \cdot 10^{-10}$$

$$-\frac{143}{(54613)^{\frac{5}{2}}} + \frac{1255.95672}{(54613)^{\frac{7}{2}}}$$

4,5925401

2,2962716

$$\begin{array}{|l} 84,2402 \\ \hline 86,4010 \end{array}$$

$$\begin{array}{r} 2,4578819 \\ 11,4813580 \\ \hline 0,9765239 \cdot 10 \end{array} \left\{ \begin{array}{r} 4,9441470 \\ 2,9518220 \\ \hline 7,8959700 \\ 16,0739012 \\ \hline 1,8220688 - 10 \end{array} \right.$$

$$\begin{array}{r} 66,3848 \\ 9,4728 \\ \hline 56,9110 \end{array}$$

4,7272960

2,2686480

$$\begin{array}{r} 2,1552260 \\ 11,8422400 \\ \hline 0,3120960 - 10 \end{array}$$

$$\begin{array}{r} 4,9807849 \\ 3,0986427 \\ \hline \end{array}$$

$$\begin{array}{r} 8,0794286 \\ 16,5805360 \\ \hline \end{array}$$

$$\begin{array}{r} 1,4988926 \\ -10 \end{array}$$

$$\begin{array}{r} 31,5423 \\ 2,0516 \\ \hline \end{array}$$

$$\begin{array}{r} 29,4907 \\ 56,9110 \\ \hline \end{array}$$

$$\begin{array}{r} 86,4017 \end{array}$$

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2

	A	T _A	a	T _a
7.10	560	641,35	160,7	641,07
21	550,5	641,27	157,6	640,99
22	522,2	641,27	149,5	641,13
24	534,7	641,20	153,1	641,10
25	587,2	641,60	168,4	641,02
26	574,4	641,27	164,7	640,90
27	543,2	641,26	155,7	641,07
28	526,7	641,60	157,9	641,27
28	560,2	641,72	155,1	641,18
27	509,1	641,57	144,1	641,23
25	532,1	641,40	150,7	641,15
24	552,2	641,57	156,2	641,20
23	500,2	641,50	141,8	641,20
22	508,6	641,52	144	641,27
21	598,0	641,58	169,1	641,30
18	549,7	641,45	156,5	641,27
15	578,0	641,64	164,2	641,15
14	509,4	641,48	145,6	641,19
13	525,5	641,22	150,0	641,09
11	514,6	641,26	147,0	641,16
10	557,2	641,40	159,5	641,02
8	582,0	641,40	165,0	641,03
7	550,6	641,27	157,4	641,04

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$$\begin{aligned}
 \text{III} &= \log(C + \sqrt{C^2 + (B - l \sin \varphi)^2}) - \log(B - l \sin \varphi) - \log(C + \sqrt{A^2 + B^2 + C^2 + l^2 - 2Al \cos \varphi - 2Bl \sin \varphi}) + \log \sqrt{A^2 + B^2 + l^2 - 2Al \cos \varphi - 2Bl \sin \varphi} \\
 &= \frac{-(B - l \sin \varphi) \sin \varphi}{(C + \sqrt{C^2 + (B - l \sin \varphi)^2}) \sqrt{C^2 + (B - l \sin \varphi)^2}} + \frac{\sin \varphi}{B - l \sin \varphi} + \frac{A \cos \varphi + B \sin \varphi}{(C + \sqrt{A^2 + B^2 + C^2 + l^2 - 2Al \cos \varphi - 2Bl \sin \varphi}) \sqrt{A^2 + B^2 + l^2 - 2Al \cos \varphi - 2Bl \sin \varphi}} - \frac{A \cos \varphi + B \sin \varphi}{A^2 + B^2 + l^2 - 2Al \cos \varphi - 2Bl \sin \varphi}
 \end{aligned}$$

for $l=0$

$$\begin{aligned}
 & - \frac{B \sin \varphi}{(C + \sqrt{C^2 + B^2}) \sqrt{C^2 + B^2}} + \frac{\sin \varphi}{B} + \frac{A \cos \varphi + B \sin \varphi}{(C + \sqrt{A^2 + B^2 + C^2}) \sqrt{A^2 + B^2 + C^2}} - \frac{A \cos \varphi + B \sin \varphi}{A^2 + B^2 + C^2} - \sin \varphi \\
 & + \frac{B \sin \varphi}{B} - \frac{\sin \varphi}{B} + \frac{A \cos \varphi - B \sin \varphi}{A^2 + B^2 + C^2} - \frac{A \cos \varphi - B \sin \varphi}{A^2 + B^2 + C^2} + \sin \varphi
 \end{aligned}$$

$$\int I + \text{II} + \text{III} + \text{IV} = + \frac{4A \cos \varphi}{(C + \sqrt{A^2 + B^2 + C^2}) \sqrt{A^2 + B^2 + C^2}} - \frac{4A \cos \varphi}{A^2 + B^2 + C^2}$$

2

$$I \left(\frac{\partial \arctan X}{\partial l} \right)_{l=0} = \frac{1}{1+X_0^2} \left\{ \frac{-C \sin \varphi}{N_0} - \frac{BC}{N_0^2} (-\cos \varphi \sqrt{b}) + \frac{1}{V_0} (A^2 \cos \varphi + AB \sin \varphi) \right\} \quad A - \text{long}$$

$$III = II = \frac{1}{1+X_0^2} \left\{ \frac{+C \sin \varphi}{N_0} - \frac{BC}{N_0^2} (-\cos \varphi \sqrt{b}) - \frac{1}{V_0} (A^2 \cos \varphi - AB \sin \varphi) \right\} \quad A - \text{long}$$

$$II = - \frac{1}{1+X_0^2} \left\{ \frac{-C \sin \varphi}{N_0} - \frac{BC}{N_0^2} (\cos \varphi \sqrt{b}) - \frac{1}{V_0} (A^2 \cos \varphi + AB \sin \varphi) \right\} \quad A + \text{long}$$

$$IV = -I = \frac{1}{1+X_0^2} \left\{ \frac{+C \sin \varphi}{N_0} - \frac{BC}{N_0} \right\} \quad A + \text{long}$$

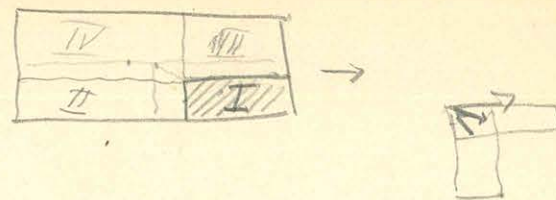
$$I + II + III + IV = \frac{2}{1+X_0^2} \left\{ - \frac{BC}{N_0^2} (-2 \cos \varphi \sqrt{b}) - \frac{2}{V_0} A^2 \cos \varphi \right\}$$

$$\frac{1}{1+X_0^2} \left\{ \frac{BC}{N_0^2} (2 \cos \varphi \sqrt{b}) + \frac{2}{V_0} A^2 \cos \varphi \right\} = \frac{\cancel{A^2(b^2+c^2)} BC}{(A^2(A^2+b^2+c^2) + B^2c^2) \sqrt{A^2+b^2+c^2}} \cdot \frac{1}{(2(A^2+b^2+c^2) + 2A^2) \cos \varphi} \cdot \frac{BC(A^2+b^2+c^2) + A^2c^2}{(A^2(A^2+b^2+c^2) + b^2c^2) \sqrt{A^2+b^2+c^2}}$$

$$- \frac{1}{54} \frac{BC}{A \sqrt{A^2+b^2+c^2}} + \frac{1}{54} \frac{A}{1+X_0^2} \left\{ \frac{BC}{N_0^2} (2 \cos \varphi \sqrt{b}) + \frac{2}{V_0} A^2 \cos \varphi \right\} d$$

$$- \frac{1}{54} \frac{1}{\sin \varphi} \left\{ \log \frac{C + \sqrt{A^2+b^2+c^2}}{b} - \log \frac{C + \sqrt{A^2+b^2+c^2}}{\sqrt{A^2+b^2+c^2}} \right\} + \frac{4AB \cos \varphi}{(C + \sqrt{A^2+b^2+c^2}) \sqrt{A^2+b^2+c^2}} - \frac{4AB \cos \varphi}{A^2+b^2} \cdot \frac{1}{\sqrt{b}}$$

$$+ \left\{ \frac{4AC \cos \varphi}{(b + \sqrt{A^2+b^2+c^2}) \sqrt{A^2+b^2+c^2}} - \frac{4AC \cos \varphi}{A^2+c^2} \right\} \frac{1}{\sqrt{b}}$$



$$\begin{array}{r} 11025 \\ 62115 \\ 47510 \\ 55117 \\ 55117 \\ \hline 0,60819 \\ 90849 \\ \hline 0,72970 \end{array}$$

$$\begin{array}{r} 61502 \\ 90849 \\ \hline 70683 \\ 90849 \\ \hline 79834 \end{array}$$

257,6

$$\begin{array}{r} 40426 \\ 41045 \\ 72547 \\ \hline 68548 \end{array}$$

$$\begin{array}{r} 67040 \\ 90849 \\ \hline 76194 \end{array}$$

$$\begin{array}{r} 61990 \\ 90849 \\ \hline 71144 \end{array}$$

$$\begin{array}{r} 64900 \\ 90849 \\ \hline 74084 \end{array}$$

5506

$$\begin{array}{r} 598,0 \\ 452,2 \\ \hline 10506 \\ 520 \end{array}$$

$$\begin{array}{r} 586,7 \\ 444,1 \\ \hline 10308 \\ 51514 \end{array}$$

$$\begin{array}{r} 32 \\ 71 \\ \hline 106 \\ 55 \end{array}$$

$$\begin{array}{r} 854,57 \\ 52 \end{array}$$

$$\begin{array}{r} 859,18 \\ 57 \\ \hline 76 \end{array}$$

$$\begin{array}{r} 656638 \\ 87910 \\ \hline 76757 \end{array}$$

$$\begin{array}{r} 64708 \\ 90902 \\ \hline 74836 \end{array}$$

$$\begin{array}{r} 63448 \\ 90849 \\ \hline 72599 \end{array}$$

$$\begin{array}{r} 55407 \\ 81698 \\ \hline 74209 \end{array}$$

$$\begin{array}{r} 51614 \\ 81698 \\ \hline 69916 \end{array}$$

$$\begin{array}{r} 65447 \\ 90849 \\ \hline 74598 \end{array}$$

$$\begin{array}{r} 58184 \\ 81698 \\ \hline 76486 \end{array}$$

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$$\begin{array}{r} 198 \\ 1968 \\ \hline 3448 \end{array}$$

$$\begin{array}{r} 64748 \\ 87910 \\ \hline 76838 \end{array}$$

$$\begin{array}{r} 172,12,40900 \\ 3,60014 \\ \hline 0,80617 \end{array}$$

$$\begin{array}{r} 0,67204 \\ 1,82821 \\ \hline 0,50055 - 1 \end{array}$$

$$\begin{array}{r} 0,017 \end{array}$$

$$\begin{array}{r} 5858 \\ 453,7 \end{array}$$

$$\begin{array}{r} 65677 \end{array}$$

$$\begin{array}{r} 118056 \\ 118056 \end{array}$$

$$\begin{array}{r} 61490 \\ 90849 \\ \hline 70641 \end{array}$$

$$\begin{array}{r} 68511 \\ 90849 \\ \hline 77662 \end{array}$$

$$\begin{array}{r} 59362 \\ 90 \end{array}$$

$$\begin{array}{r} 64865 \\ 90849 \\ \hline 74016 \end{array}$$

$$\begin{array}{r} 927,4 \\ 87910 \\ 64088 \\ \hline 76178 \end{array}$$

$$\begin{array}{r} 5778 \\ 4074 \\ \hline 2510 \end{array}$$

$$\begin{array}{r} 31 \\ 178 \\ 52 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 16666,1 \\ 3332 \\ \hline 14334 \end{array}$$

$$\begin{array}{r} 157,8 \\ 2059 \\ \hline 180,8 \end{array}$$

$$\begin{array}{r} 59689121 \\ 58000 \\ \hline 5922506 \end{array}$$

Ansatz

$$n^2 - 1 = a(1 + 0,36 \sqrt{t})$$

$$2n \frac{\partial n}{\partial t} = a \frac{0,36}{2\sqrt{t}} \frac{\partial t}{\partial t}$$

$$n \frac{\partial n}{\partial t} = 0,09 \frac{a}{\sqrt{t}}$$

$$n^2 - 1 = 0,2606(1 + 0,36 \sqrt{t})$$

$$n \frac{\partial n}{\partial t} = 0,0000387 \frac{\partial t}{\partial t}$$

$$\frac{\partial t}{\partial t} = \frac{100}{t} = 0,215$$

$$n = 1,056$$

$$T = \frac{T - T_0}{T_0} = \frac{24}{0,859} \cdot 100$$

$$\frac{\partial n}{\partial t} = 0,0000604$$

Arbeitszeit 8°

21,2

1,260

1,252

291

178

$\tau = 38$

$$\lg \sqrt{t} = 0,78989$$

$$\lg 0,36 = 0,55620$$

$$0,34619$$

12226

26452

$$464 / 1760 / 38 \quad 1,57978$$

$$\frac{3680}{9712}$$

1256

2220

(3,22)

1859

222

829

0,2606

16

510

$$464 / 1000 / 0,215$$

$$\frac{926}{740}$$

$$\frac{2770}{2770}$$

0,00000

$$0,261$$

$$0,002349$$

$$0,27088 - 4$$

$$0,78989$$

$$0,58099 - 5$$

$$0,32244 - 1$$

$$0,91226 - 5$$

25

189

88

51

265

265

265

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265

$$F = \int dm \frac{a \sin \varphi - b \cos \varphi}{(a^2 + b^2 + c^2 + l^2 - 2a \cos \varphi - 2b \sin \varphi)^{\frac{5}{2}}}$$

$$\frac{\partial F}{\partial \varphi} = \int dm \left\{ \frac{a \cos \varphi + b \sin \varphi}{(\quad)^{\frac{5}{2}}} - 3 \frac{(a \sin \varphi - b \cos \varphi)(a \cos \varphi - b \sin \varphi)}{(\quad)^{\frac{7}{2}}} \right\}$$

$$\varphi = 0$$

$$\varphi=0 \quad \frac{\partial F}{\partial \varphi} = \int dm \left\{ \frac{a l}{(a^2 + b^2 + c^2 + l^2 - 2a l)^{\frac{5}{2}}} + 3 \frac{a b l^2}{(a^2 + b^2 + c^2 + l^2 - 2a l)^{\frac{7}{2}}} \right\}$$

$$l=1 \quad a=3 \quad b=1$$

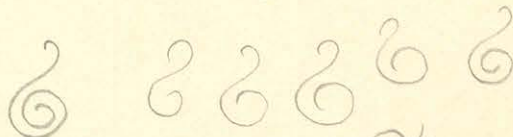
$$c=2$$

$$a^2 + b^2 + c^2 + l^2 = 15$$

$$2al = 6$$

$$\varphi = \frac{\pi}{2} \quad \frac{\partial F}{\partial \varphi} = \int dm \left\{ \frac{b l}{(a^2 + b^2 + c^2 + l^2 - 2b l)^{\frac{5}{2}}} + 3 \frac{a b l^2}{(a^2 + b^2 + c^2 + l^2 - 2b l)^{\frac{7}{2}}} \right\}$$

$$f(x, \mu) = \sum A_n x^n \quad |u| > 0 \quad \frac{n!}{1000^n}$$



$$\lim_{\mu \rightarrow 0} \frac{R_n}{\mu^n} = 0$$

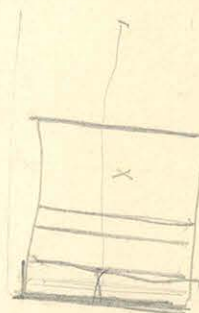
P/2

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$$\frac{bc(a-\xi)\sqrt{(a-\xi)^2 + b^2 + c^2}}{\sqrt{\dots} \cdot \frac{1}{(a-\xi)^2}}$$

$$2 \sqrt{\dots} (a-\xi) \frac{a-\xi}{\sqrt{\dots}}$$

Handwritten scribble



$a +$

$a + \text{ling}$

$$a' = a + \text{ling}$$

$$J = \text{ling}$$

ling

$$Y \cos \varphi - X \sin \varphi$$

$$- 4/5 l^2 \frac{\sin 2\varphi}{2} \left(\arctan \frac{AC}{B\sqrt{A^2+B^2+C^2}} - \arctan \frac{BC}{A\sqrt{A^2+B^2+C^2}} \right) + 10 l^2 \sin 2\varphi \frac{2ABC}{\sqrt{A^2+B^2+C^2}} \left(\frac{(A^2+B^2+C^2)+2A^2}{B^2(A^2+B^2+C^2)+A^2C^2} - \frac{(A^2+B^2+C^2)+2A^2}{A^2(A^2+B^2+C^2)+B^2C^2} \right)$$

$$+ 4/5 l^2 \frac{\sin 2\varphi}{2} C \left(\frac{B}{(A+\sqrt{A^2+B^2+C^2})\sqrt{A^2+B^2+C^2}} - \frac{A}{(B+\sqrt{A^2+B^2+C^2})\sqrt{A^2+B^2+C^2}} - \frac{B}{B^2+C^2} + \frac{A}{A^2+C^2} \right)$$

$$- \frac{A}{A^2+B^2}$$

$$\frac{\pi}{2}$$

$$\frac{\pi 4/5 l^2 \sin \varphi}{0,833051} - 16 \left(\arctan \frac{AC}{BS} - \arctan \frac{BC}{AS} \right) + \frac{2,8ABC}{S} \left(\frac{S^2+B^2}{B^2S^2+A^2C^2} - \frac{S^2+A^2}{A^2S^2+B^2C^2} \right) + 16 BC \left(\frac{1}{(A+S)S} - \frac{1}{B^2+C^2} \right) - 16 AC \left(\frac{1}{(A+S)S} - \frac{1}{A^2+C^2} \right)$$

$A = 44,80$
 $B = 14,925$
 $C = 29,25$
 $A^2 = 2007,04$
 $B^2 = 222,76$
 $C^2 = 855,56$
 $S^2 = 3085,36$
 $S = 55,546$
 $\ln S = 1,744650$

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~~1,6224~~
~~1,00252~~ 1,628224 x 2

-0,326500

-0,123602

11,5818

703528
 1,628224

14925
12986
1,939
27911

222,755
3,760
226,515
855,563
1082,078

779,022
222,755
1001,777
855,563
1857,340

779,022
855,563
1634,585
3,213,406

3,034,259

3,268,891

3,000,729

2,355,097

0,287578
1,466,226
1,743,704
2,691,043
0,052661

1,173,914
1,517,129
2,691,043

0,104720
0,007563
0,000131
0,112414

1,445,775
1,466,126
2,911,901
2,808,360
0,103541

1,177,914
1,634,446
2,808,360
4,442,816

540 45' 58"
0,890,118
0,130,90
0,002,81
0,903,489

3,356,75
13,427,06

1,445,775
1,173,914
1,466,126
2,640,040
2,080,221
0,559,819

19° 56' 49"
1,445,775
1,634,446
3,080,221
43,0969
29,25
2,3469

1,413,717
119,26
73
1,425,716
43,097
14,925

2,640,040
1,804,707
0,835,333

81° 41' 15"
0,287578
1,517,129
1,804,707

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KÖNYVTÁRA

32,8949 58,022
29,25
62,1449
32,8949
14,925
47,820

1,500,365
1,179,2405
3,293,770
3,036,962
0,256,808

1,177,548
1,794,615
1,859,414
3,036,962

$\Delta y = 2,302585 = 0,262216$

0,409,608 - 1
262,216
0,771,824 - 1

1,500,365
1,467,078
0,139,625
916,017 - 1
0,055,642

1,679,610
1,762,592
0,916,017 - 1

0,745,403 - 2
262,216
0,107,619 - 1

1-900,689'0
1-803,821
255,660'0

1-184,268'0
259,691
69,122'0

128121

$$\begin{array}{r} 0,112414 \\ 903489 \\ \hline 1+1=1,015903 \end{array}$$

$$\begin{array}{r} 9,71692 \\ 2,76447 \\ \hline 6,95245 \\ 8,82548 \\ \hline 3,77754 \\ \hline 19,52547 \end{array}$$

$$\begin{array}{r} 1,290602 \\ 1,113475 \\ \hline 0,177127 \\ 1,50358 \end{array}$$

$$\begin{array}{r} 1,445775 \\ 0,541754 - 1 \\ \hline 0,987529 \end{array}$$

$$\begin{array}{r} 0,287578 \\ 0,154034 \\ \hline 0,441612 \end{array}$$

$$\begin{array}{r} 0,771824 - 1 \\ 1,173914 \\ \hline 0,945738 \end{array}$$

$$\begin{array}{r} 1,466126 \\ 0,107620 - 1 \\ \hline 0,573746 \end{array}$$

$$\begin{array}{r} I = 1,015903 \\ \hline 2,031806 \end{array}$$

$$\left\{ \begin{array}{l} 1,50358 \\ 1,01590 \\ \hline 0,48768 \end{array} \right.$$

$$\underline{\underline{+ 0,48768 \varphi}} + 4$$

$$+ 0,48768 \varphi + 4/5 l^2 0,67726 \varphi^2 - 4/5 l^2 0,25060 \varphi^2 - 0,712858 \varphi^3 - 4/5 l^2 0,141027 \varphi^3$$

$$\begin{array}{r} 2,226950 \\ 0,287578 \\ 1,173914 \\ 1,466126 \\ \hline 5,154568 \\ 7,682124 \\ \hline 12,836692 \\ \hline 12,836692 - 3 \\ \hline 1,047154 \\ 0,518598 - 2 \\ \hline 0,0330064 \end{array}$$

$$\begin{array}{r} 2,247828 \\ 3,034258 \\ \hline 5,382086 \\ 241038 \\ 3217 \\ \hline 244255 \end{array}$$

$$\begin{array}{r} 0,575156 \\ 2,922252 \\ \hline 3,507408 \end{array}$$

$$\begin{array}{r} 222,755 \\ 1082,078 \\ \hline 1304,833 \end{array}$$

$$\log(1,5^2(1-1)l^2) = 5,387844$$

$$\begin{array}{r} 3,115554 \\ 5,287844 \\ \hline 6,231108 \\ 0,843264 \end{array}$$

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$$\begin{array}{r} 6,97050 \\ 13,94100 \end{array}$$

$$\begin{array}{r} 10,94100 \\ 0,20586 \\ \hline 11,14686 \end{array}$$

$$\begin{array}{r} 1,445775 \\ 2,226950 \\ 1,173914 \\ 1,466126 \\ \hline 6,312765 \\ 8,446117 \\ \hline 14,758882 \\ \hline 14,758882 - 3 \\ \hline 1,166862 \\ 0,033510 - 1 \\ \hline 0,108021 \\ 33006 \\ \hline 0,141027 \end{array}$$

$$\begin{array}{r} 2,247828 \\ 3,268892 \\ \hline 5,516720 \\ 413733 \\ 666503 \\ \hline 1,080236 \end{array}$$

$$\begin{array}{r} 2,591550 \\ 2,932252 \\ \hline 5,523802 \end{array}$$

$$\begin{array}{r} 222,755 \\ 1857,240 \\ \hline 2080,095 \end{array}$$

$$\log(1,5^2(1-1)l^2) = 6,033520$$

$$\begin{array}{r} 3,488565 \\ 6,977130 \\ 6,033520 \\ \hline 0,943610 \end{array}$$

$$\begin{array}{r} 778151 \\ \hline 8,446117 \end{array}$$

$$\begin{array}{r} 2,247828 \\ 3,268892 \\ \hline 0,078936 - 1 \end{array}$$

$$\begin{array}{r} 8,78234 \\ 14,56468 \\ \hline 11,993 \end{array}$$

$$\begin{array}{r} 25060 \\ 71286 \\ 14103 \\ \hline 1,10449 \end{array}$$

$$\begin{array}{r} 14,68461 \\ 1,10449 \\ 67727 \\ \hline 0,42722 \end{array}$$

$$R = -2\pi g \left(\frac{1}{2} \frac{a^1}{r^2} + \frac{5}{16} \frac{a^6}{r^6} + \frac{125}{2^{10}} \frac{a^{10}}{r^{10}} \right) -$$

$$\frac{1}{8} \cdot \frac{1}{156}$$

357.

$$X = -2\pi g \left(\frac{1}{2} \frac{a^2}{r^2} \cos^2 \delta \sin \delta + \frac{5}{16} \frac{a^6}{r^6} \cos^6 \delta \sin \delta \right)$$



$$\frac{n(n-1)(n-2) \dots}{1 \cdot 2 \cdot 3 \cdot 4}$$

$$\frac{r}{\sqrt{r^2 + x^2}} \cdot x$$

$$\frac{x r}{(\sqrt{r^2 + x^2})^{\frac{7}{2}}}$$

$$\cos \delta = \frac{r}{\sqrt{r^2 + x^2}}$$

$$\sin \delta = \frac{x}{\sqrt{r^2 + x^2}}$$

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ΚΟΝΙΝΑ

$$\cos^2 \delta \sin \delta = \frac{r^2 x}{(r^2 + x^2)^{\frac{7}{2}}}$$

$$= \frac{x}{r(1 + \frac{x^2}{r^2})^{\frac{7}{2}}}$$

$$\cos^6 \delta \sin \delta = \frac{r^6 x}{(r^2 + x^2)^{\frac{7}{2}}}$$

$$= \frac{x}{r(1 + \frac{x^2}{r^2})^{\frac{7}{2}}}$$

$$X =$$

$$X = -\pi g \frac{a^2 x}{r^2} \left(\frac{1}{(1 + \frac{x^2}{r^2})^{\frac{7}{2}}} + \frac{5}{8} \frac{a^4}{r^4} \frac{1}{(1 + \frac{x^2}{r^2})^{\frac{7}{2}}} \right)$$

$$1 - \frac{3}{2} \frac{x^2}{r^2} + \frac{3 \cdot 5}{8} \frac{x^4}{r^4} - \frac{3 \cdot 5 \cdot 7}{48} \frac{x^6}{r^6} + \frac{3 \cdot 5 \cdot 7 \cdot 9}{384} \frac{x^8}{r^8}$$

$$+ \frac{5}{8} \frac{a^4}{r^4} \left(1 - \frac{7}{2} \frac{x^2}{r^2} + \frac{7 \cdot 9}{8} \frac{x^4}{r^4} - \frac{7 \cdot 9 \cdot 11}{48} \frac{x^6}{r^6} + \frac{7 \cdot 9 \cdot 11 \cdot 13}{288} \frac{x^8}{r^8} \right)$$

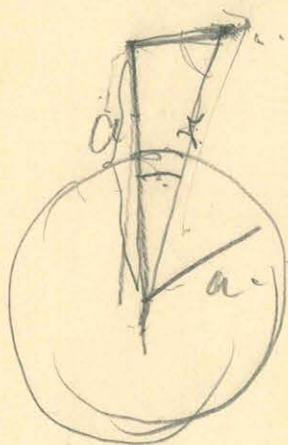
$$\begin{array}{r} 63 \\ 693 \\ \hline 3465 \end{array}$$

$$\begin{array}{r} 63 \\ 215 \\ \hline 105 \\ 945 \end{array}$$

$$\begin{array}{r} 693 \\ 11 \\ \hline 2079 \\ 693 \\ \hline 9009 \end{array}$$

$$V = 2\pi r a \left(\frac{1}{2} \frac{a}{r} Q_0 + \sum_{k=1}^{\infty} \frac{(-1)^k \frac{1, 1, 3, \dots (2k-1)}{2, 4, 6, \dots 2k} \left(\frac{a}{r}\right)^{2k+1} Q_k \right.$$

$$V = 2\pi r a \left(\frac{1}{2} \frac{a}{r} + \frac{1, 3}{1, 2} \cdot \frac{2, 1}{2, 3} \left(\frac{a}{r}\right)^5 \cdot \frac{1, 1}{2, 4} + \frac{1, 3, 5, 7}{1, 2, 3, 4} \cdot \frac{2, 1, 3, 5}{2, 4, 6, 8} \left(\frac{a}{r}\right)^9 \cdot \frac{1, 1, 3, 5}{2, 4, 6, 8} + \dots \right)$$



$$r = \sqrt{x^2 + a^2}$$

$$\frac{3}{8} \cdot \frac{5}{128} \cdot \frac{15}{1024} = \frac{15}{2^{10}}$$

$$\frac{1}{(x^2 + a^2)^{\frac{5}{2}}}$$

$$\frac{\partial}{\partial x} \frac{1}{r} = \frac{\partial}{\partial x} \frac{1}{\sqrt{x^2 + a^2}} = -\frac{x}{(x^2 + a^2)^{\frac{3}{2}}} = -\frac{x}{a^3 \left(1 + \frac{x^2}{a^2}\right)^{\frac{3}{2}}} = -\frac{x}{a^3} \left(1 - \frac{3}{2} \frac{x^2}{a^2} + \frac{3 \cdot 5}{2 \cdot 4} \frac{x^4}{a^4} - \dots\right)$$

$$\frac{\partial}{\partial x} \frac{1}{r^3} = -\frac{3x}{(x^2 + a^2)^{\frac{5}{2}}} = -\frac{3x}{a^5 \left(1 + \frac{x^2}{a^2}\right)^{\frac{5}{2}}} = -\frac{3x}{a^5} \left(1 - \frac{5}{2} \frac{x^2}{a^2} + \frac{5 \cdot 7}{2 \cdot 4} \frac{x^4}{a^4} - \dots\right)$$

$$\frac{\partial}{\partial x} \frac{1}{r^5} = -\frac{5x}{(x^2 + a^2)^{\frac{7}{2}}} = -\frac{5x}{a^7 \left(1 + \frac{x^2}{a^2}\right)^{\frac{7}{2}}} = -\frac{5x}{a^7} \left(1 - \frac{7}{2} \frac{x^2}{a^2} + \frac{7 \cdot 9}{2 \cdot 4} \frac{x^4}{a^4} - \dots\right)$$

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$$V = 2\pi r a \left(\frac{1}{2} \frac{a}{r} + \frac{1}{16} \left(\frac{a}{r}\right)^5 + \frac{15}{2^{10}} \left(\frac{a}{r}\right)^9 + \dots \right)$$

$$\frac{\partial V}{\partial x} = -2\pi r a \left(\frac{x}{a^2} - \frac{3}{2} \frac{x^3}{a^4} + \frac{15}{8} \frac{x^5}{a^6} \right.$$

$$+ \frac{5}{16} \frac{x}{a^2} - \frac{35}{32} \frac{x^3}{a^4} + \frac{315}{128} \frac{x^5}{a^6}$$

$$+ \frac{135}{2^{10}} \frac{x}{a^2} - \frac{1485}{2^{11}} \frac{x^3}{a^4} + \frac{19305}{2^{13}} \frac{x^5}{a^6}$$

$$\begin{array}{r} 125 \\ 125 \\ 1485 \\ 17 \\ \hline 4455 \\ 1485 \\ \hline 19305 \end{array}$$

$$\begin{array}{r} 2^{10} \\ 16 \\ \hline 16 \\ 96 \\ 256 \\ 512 \\ 1024 \\ 12 \\ 4096 \\ 15 \\ 32768 \\ 17 \\ 131072 \end{array}$$

Mem. Fem.

II. 269,0 100cm. skálán

$$\begin{array}{r} 1995:2103=0,949 \\ 10230 \\ \hline 18180 \end{array}$$

$$\begin{array}{r} 1995:1949=102,4 \\ 4600 \\ \hline 7020 \end{array}$$

$$\begin{array}{r} 120,3 \\ 338,0 \\ \hline 140,2 \end{array}$$

III. 84,2 cm. skálán

$$\begin{array}{r} 338,0 \\ 320,2 \\ \hline 147,7 \\ 305,0 \end{array}$$

III-IV. (100 cm. skálán)

$$\begin{array}{r} 120,2 \\ 348,0 \\ \hline 140,9 \end{array}$$

IV. (105 cm. skálán)

$$\begin{array}{r} 335,1 \\ 121,3 \\ \hline 315,9 \end{array}$$

IV-I. (100 cm. skálán)

$$\begin{array}{r} 316,2 \\ 100,2 \\ \hline 297,2 \end{array}$$

I. $\begin{array}{r} 156,1 \\ 295,0 \\ \hline 168,2 \end{array}$

I-II. $\begin{array}{r} 382,1 \\ 168,3 \\ \hline 362,8 \end{array}$

II. $\begin{array}{r} 383,0 \\ 167,2 \\ \hline 362,9 \end{array}$

$$\begin{array}{r} 2011:2197=0,915 \\ 3370 \\ \hline 11730 \end{array}$$

$$\begin{array}{r} 2011:1915=105,0 \\ 9600 \\ \hline 0250 \end{array}$$

skálán 80 cm. Lem.

III. $\begin{array}{r} 140,5 \\ +38,5 \\ +16,0 \\ +30,4 \\ \hline +26,7 \end{array}$

III-IV. $\begin{array}{r} -134,5 \\ +122,0 \\ \hline -107,2 \end{array}$

$$\begin{array}{r} 279,2:306,5=0,911 \\ 3350 \\ \hline 2850 \end{array}$$

$$\begin{array}{r} 279,2:1911=146,1 \\ 8810 \\ \hline 11660 \end{array}$$

IV. $\begin{array}{r} -157,0 \\ +163,5 \\ \hline -129,5 \end{array}$

IV-I. $\begin{array}{r} -172,9 \\ +193,6 \\ \hline -140,0 \end{array}$

I. $\begin{array}{r} -119,0 \\ +154,5 \\ \hline -94,4 \end{array}$

I-II. $\begin{array}{r} -97,4 \\ +48,0 \\ \hline -49,4 \end{array}$

-21,3

II. $\begin{array}{r} +48,1 \\ -143,5 \\ +31,0 \\ \hline -52,2 \end{array}$

II-III. $\begin{array}{r} -140,4 \\ +82,1 \\ \hline -119,7 \end{array}$

III. $\begin{array}{r} -17,2 \\ +63,9 \\ \hline -9,5 \end{array}$

+25,4

Fern

Skalatur 75 cm.

III. $\left. \begin{array}{l} 291,8 \\ 187,1 \\ 282,8 \end{array} \right\}$

237,1 (-12,9)

75 cm.

III-IV. $\left. \begin{array}{l} 150,5 \\ 273,2 \\ 161,9 \end{array} \right\}$

214,8 (-35,2)

100 cm. Skalatur. (alles 223)

IV. $\left. \begin{array}{l} 292,7 \\ 141,9 \\ 280,0 \end{array} \right\}$

214,0 (-36,0)

II-I. $\left. \begin{array}{l} 330,0 \\ 152,3 \\ 314,2 \end{array} \right\}$

237,0 (-13,0)

I. $\left. \begin{array}{l} 319,4 \\ 160,8 \\ 305,5 \end{array} \right\}$

236,6 (-13,4)

I-II. $\left. \begin{array}{l} 329,8 \\ 150,0 \\ 314,0 \end{array} \right\}$

329,8
150,0
314,0

II. Skalatur 110 cm.

381,4
144,5
360,3

II-III. Skalatur 100 cm.

104,1
411,6
132,7

III. $\left. \begin{array}{l} 370,2 \\ 104,4 \\ 345,9 \end{array} \right\}$

$$\frac{957:1047}{1420} = 0,914$$

$$\frac{957:1914}{000} = 50$$

$$\frac{948:1037}{1470} = 0,914$$

$$\frac{126:75}{510} = 0,168000$$

$$\frac{1095:1199}{1590} = 0,913$$

$$\frac{34,1:75}{410} = 0,045466$$

$$\frac{1347:1473}{2130} = 0,915$$

$$\frac{1586:1742}{1820} = 0,910$$

$$\frac{1424:1563}{1730} = 0,911$$

$$\frac{1607:1759}{2390} = 0,914$$

$$\frac{2093:228}{410} = 0,918$$

$$\frac{2642:2891}{4010} = 0,914$$

$$\frac{2314:2534}{3340} = 0,913$$

$$\frac{2415:2658}{22800} = 0,908$$

$$\frac{2415:1908}{5070} = 126$$

$$\frac{948:1914}{18240} = 49,5$$

$$\frac{1095:1913}{13850} = 57,2$$

$$\frac{1347:1915}{86500} = 70,3$$

$$\frac{1586:191}{580} = 83,0$$

$$\frac{1424:1911}{8630} = 74,5$$

$$\frac{1607:1914}{7580} = 83,9$$

$$\frac{2093:1918}{17500} = 109,1$$

$$\frac{2642:1914}{7280} = 138$$

$$\frac{2314:1913}{4010} = 120,9$$

Lenn a földön (60 cm.-rel a fal felé)

Lenn. (tárcsával építve)

Hely.	Skálataz.	Küti-fel.	Egyenlő	Küti-fel. skálataz.	Hely.	Skálataz.	Küti-fel.	Küti-fel. redukálva a egyenlő s. egyenlő.	skál. tárcs. faja.	A küti-fel. a skálataz.
III.	80 cm. +38,5 +16,0 +36,4	+38,5 +16,0 +36,4	+26,7	$\frac{13,35}{800} =$ =0,016688	III.	75 cm.	291,8 187,1 282,8	291,6 187,9 282,7	237,4 12,6	$\frac{-12,6}{750} =$ = -0,016800
III. - IV.	80 cm.	-134,5 +172,0 -107,2	+25,9	$\frac{12,95}{800} =$ =0,016188	III. - IV.	75 cm.	150,5 273,2 161,9	153,2 273,1 163,6	215,9 34,1	$\frac{-34,1}{750} =$ =0,045467
IV.	"	-157,0 +163,5 -129,5	+10,4	$\frac{52}{800} =$ =0,006500	IV.	100 cm.	292,7 141,9 280,0	292,5 145,2 279,9	215,5 34,5	$\frac{-34,5}{1000} =$ =0,004500
IV. - I.	"	-172,9 +193,0 -140,0	+18,7	$\frac{9,35}{800} =$ =0,011688	IV. - I.	100 cm.	330,0 152,3 314,2	329,0 154,8 313,9	237,8 -12,2	$\frac{-12,2}{1000} =$ = -0,012200
I.	"	-119,0 +154,5 -94,4	+24,7	$\frac{12,35}{800} =$ =0,015438	I.	100 cm.	319,9 160,8 305,5	319,0 162,7 305,2	237,2 -12,8	$\frac{-12,8}{1000} =$ = -0,012800
I. - II.	"	-97,4 +48,0 -84,7	-21,3	$\frac{-10,65}{800} =$ = -0,013312	I. - II.	100 cm.	329,8 150,0 314,0	328,5 152,6 313,3	236,5 -13,5	$\frac{-13,5}{1000} =$ = -0,013500
II.	"	+48,1 -143,5 +31,0	-52,2	$\frac{-26,1}{800} =$ = -0,032625	II.	110 cm.	381,4 144,5 360,3	375,5 147,5 356,8	253,6 +3,6	$\frac{3,6}{1100} =$ =0,003273
II. - III.	"	-140,4 +82,1 -119,7	-23,7	$\frac{-118,5}{800} =$ = -0,014812	II. - III.	100 cm.	104,1 411,6 132,7	112,0 401,1 136,9	263,1 +13,1	$\frac{13,1}{1000} =$ =0,013100
III.	"	-17,2 +63,9 -9,5	+25,4	$\frac{12,7}{800} =$ =0,015875 016688 12563 016281	III.	100 cm.	370,2 104,4 345,9	365,7 112,3 343,7	233,2 -16,8	$\frac{-16,8}{1000} =$ = -0,016800 0168

Lenn egyenlő építve.

A pincesz belfő végében; fenn (kivételével építve)

Hely	Skálázási módszár	Külső szélesség	Külső szélesség	Engedély szélesség	Általános szélesség	Általános szélesség
IV	100 cm.			269,0	+19,0	$\frac{19}{1000} = +0,019000$
III-IV	100 cm.	120,3 338,0 140,2	125,9 336,2 136,7	233,8	-16,2	$\frac{-16,2}{1000} = -0,016200$
III	87,2 cm.	320,2 147,7 305,0	319,0 151,3 304,4	231,3	-18,7	$\frac{-18,7}{87,2} = -0,21445$
III-IV	100 cm.	120,2 348,0 140,9	125,8 345,5 144,4	240,5	-9,5	$\frac{-9,5}{1000} = -0,009500$
IV	105 cm.	335,1 121,3 315,9	333,6 126,4 315,3	225,2	-24,8	$\frac{-24,8}{1050} = -0,023619$
IV-I	100 cm.	316,2 100,2 297,2	315,4 108,7 296,9	207,2	-42,8	$\frac{-42,8}{1000} = -0,042800$
I	100 cm.	156,1 295,0 168,2	158,3 294,8 169,7	229,5	-20,5	$\frac{-20,5}{1000} = -0,020500$
I-II	100 cm.	382,1 168,3 362,8	376,2 169,8 359,1	268,5	+18,5	$\frac{18,5}{1000} = +0,018500$
II	100 cm.	383,0 167,2 362,9	377,0 168,7 359,2	268,2	+18,2	$\frac{18,2}{1000} = +0,018200$ $\frac{0,018200}{0,018200} = 1,0000$ $\frac{1,0000}{0,018200} = 54,945$

II.
II-
III.
III-
IV.
IV-
I.
I-II.
II.

A pinxre belfő végében; kum (erőnyővel építve)

Kely	Skalata- volság	Kintőfel Egyenlő	Kitérés fel Skalatais.
II.	78cm.	$\left. \begin{array}{r} -7,0 \\ -60,0 \\ -11,9 \end{array} \right\}$	$-36,3$
			$\frac{-18,15}{780} =$ $= -0,023269$
II.-III.	78cm.	$\left. \begin{array}{r} +115,6 \\ -156,0 \\ +92,5 \end{array} \right\}$	$-26,3$
			$\frac{-13,15}{780} =$ $= -0,016859$
III.	78cm.	$\left. \begin{array}{r} -22,5 \\ -32,5 \\ -23,2 \end{array} \right\}$	$-27,7$
			$\frac{-13,85}{780} =$ $= -0,017756$
III.-IV.	78cm.	$\left. \begin{array}{r} +180,0 \\ -169,9 \\ +149,5 \end{array} \right\}$	-30
			$\frac{-4,5}{780} =$ $= -0,019243$
IV.	78cm.	$\left. \begin{array}{r} +200,0 \\ -125,3 \\ +171,3 \end{array} \right\}$	$+29,9$
			$\frac{14,95}{780} =$ $= +0,019167$
IV.-I.	78cm.	$\left. \begin{array}{r} +36,0 \\ -7,0 \\ +32,5 \end{array} \right\}$	$+13,6$
			$\frac{6,8}{780} =$ $= +0,008718$
I.	78cm.	$\left. \begin{array}{r} +124,8 \\ -165,0 \\ +100,9 \end{array} \right\}$	$-26,3$
			$\frac{-13,15}{780} =$ $= -0,016859$
I.-II.	78cm.	$\left. \begin{array}{r} +55,0 \\ -138,0 \\ +38,0 \end{array} \right\}$	$-46,0$
			$\frac{-23}{780} =$ $= -0,029487$
II.	78cm.	$\left. \begin{array}{r} +116,6 \\ -172,0 \\ +91,0 \end{array} \right\}$	$-34,4$
			$\frac{-17,2}{780} =$ $= -0,022051$ $\frac{0,023269}{5320}$ $0,022660$

0168	0192
0177	0168
0226	0295
+0571	0655
0192	0087
+0379	0568

Ms 5106/18-19. Eötvös L. teljes jegyei



Ms 5106 / 18

238581

11,929

71,951

$$\arccos \frac{bc}{a\sqrt{a^2+b^2+c^2}} = \frac{\pi}{2} - \frac{a\sqrt{a^2+b^2+c^2}}{bc} + \frac{1}{2}(\quad)$$

Solution I 225 lbs

$$\begin{array}{r} 15 \\ 15 \\ \hline 75 \\ 15 \\ \hline 225 \\ 251 \end{array}$$

$$\frac{1\sqrt{\quad}}{15 \cdot 5}$$

15,8

$\frac{1}{\sqrt{2}}$ $\frac{1}{\sqrt{2}}$

$$\left(\frac{\pi}{2} - \frac{x\sqrt{x^2+b^2+c^2}}{bc} \right) dx$$

$$\frac{\pi}{2} x - \frac{1}{bc} \int \sqrt{x^2+b^2+c^2} \cdot x dx$$

$$b=15$$

$$c=25$$

$$x=1$$

$$\frac{\pi}{2} - 0,041046$$

$$b=15$$

$$c=5$$

$$x=1$$

$$\frac{\pi}{2} - 0,10541$$

$$241 \cdot 0,06421$$

$$d \left(\frac{x^2+b^2+c^2}{3} \right)^{\frac{3}{2}} = \frac{3}{2} \sqrt{x^2+b^2+c^2} \cdot x dx$$

$$\frac{\pi}{2} x - \frac{1}{bc} \frac{1}{3} \sqrt{x^2+b^2+c^2}^{\frac{3}{2}}$$

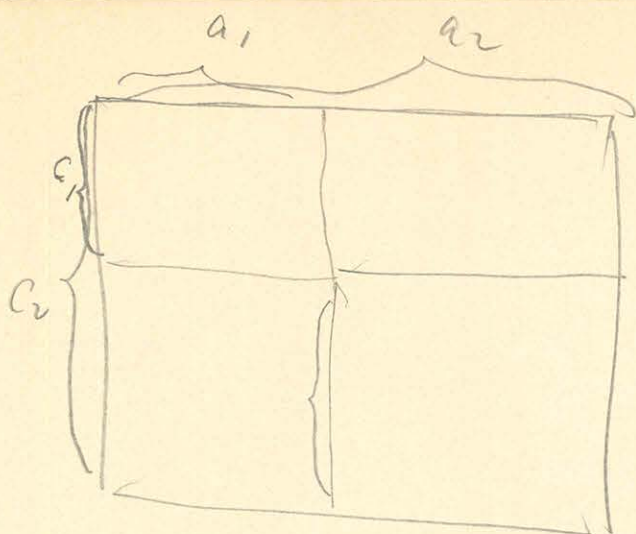
$$\frac{\pi}{2} x - \frac{1}{3bc} \left(\sqrt{x^2+b^2+c^2}^{\frac{3}{2}} - (b^2+c^2)^{\frac{3}{2}} \right)$$

$$(b^2+c^2)^{\frac{3}{2}} \left(1 + \frac{x^2}{b^2+c^2} \right)^{\frac{3}{2}} - (b^2+c^2)^{\frac{3}{2}}$$

$$\left(1 + \frac{x^2}{b^2+c^2} \right)^{\frac{3}{2}} = 1 + \frac{3}{2} \frac{x^2}{b^2+c^2}$$

$$(b^2+c^2)^{\frac{3}{2}} \frac{3}{2} \frac{x^2}{b^2+c^2}$$

$$\frac{\pi}{2} x - \frac{1}{2} \frac{\sqrt{b^2+c^2}}{bc} x^2$$



$$\prod(a_2 c_1) + \prod(a_1 c_1) - \prod a_2 c_1 - \prod a_1 c_2$$

$$\prod \log \frac{a_2 + b}{a_1 + b}$$

$$\prod \log \frac{a_2}{a_1}$$

$$\log \frac{\sqrt{a_1^2 + b^2} (c_1 + \sqrt{b^2 + c_1^2}) \sqrt{a_2^2 + b^2} (c_2 + \sqrt{b^2 + c_2^2}) (c_1 + \sqrt{a_2^2 + b^2 + c_1^2}) (c_2 + \sqrt{a_1^2 + b^2 + c_2^2})}{\sqrt{a_2^2 + b^2} (c_1 + \sqrt{b^2 + c_1^2}) \sqrt{a_1^2 + b^2} (c_2 + \sqrt{b^2 + c_2^2}) (c_2 + \sqrt{a_2^2 + b^2 + c_2^2}) (c_1 + \sqrt{a_1^2 + b^2 + c_1^2})}$$

$$\prod \text{db. } \log \frac{(c_1 + \sqrt{a_2^2 + b^2 + c_1^2}) (c_2 + \sqrt{a_1^2 + b^2 + c_2^2})}{(c_2 + \sqrt{a_2^2 + b^2 + c_2^2}) (c_1 + \sqrt{a_1^2 + b^2 + c_1^2})}$$

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ha $b = 0$ akkor a kifejezés

$$\prod_0 = \log \frac{(c_1 + \sqrt{a_2^2 + c_1^2}) (c_2 + \sqrt{a_1^2 + c_2^2})}{(c_2 + \sqrt{a_2^2 + c_2^2}) (c_1 + \sqrt{a_1^2 + c_1^2})}$$

$$\prod_0 \text{ értéke } a_2 = 45 \quad c_2 =$$

$$\prod_{\substack{b=0 \\ a_2=45 \\ c_2=25 \\ a_1=15 \\ c_1=5}} = 0,52685$$

$$\text{a differencia} = \underline{\underline{0,35082}}$$

$$\prod_{\substack{b=30 \\ a_2=45 \\ c_2=25 \\ a_1=15 \\ c_1=5}} = 0,18603$$

$$A \text{ bolin in frysmanen} = 95 x^2 0,25082 dx.$$

$$v_{xy} \quad x = +d \ln + 1 \quad y$$

$$295 \frac{d^2}{3} 0,25082$$

$$295 d = m$$

$$m/5 \frac{d^2}{5} 0,25082$$

$$0,11694 m/5 d^2 \quad 1 = 1 \text{ unit}$$

$$0,11694 m/5$$

$$11,7 \text{ } 15$$

$$\begin{array}{r} 6,7 \\ 10,8 \\ \hline 5,6 \\ 6,70 \\ \hline 72,26 \\ \hline 72 \\ \hline 100. m \end{array}$$

$$\frac{7200}{100 m.}$$

$$\frac{842}{100. m.}$$

$$0,625 \cdot \frac{97}{635}$$

$$\frac{11,7 \cdot 720}{100 m.}$$

$$\begin{array}{r} 4275 \\ 625 \\ \hline 625 \overline{) 10625} \\ \underline{625} \\ 4275 \\ \underline{3810} \\ 4650 \\ \underline{4810} \\ 2845 \\ \underline{4445} \\ 2010 \end{array} \quad \begin{array}{r} 0,0167300 \\ 0,000000087 \end{array} \quad \begin{array}{r} 234 \\ 819 \\ \hline 8424 \end{array}$$

I Olms	4,66 - 5,66	$\frac{p_x}{p} = 0$	$2 \times \text{hit}$	$f_I = 0,00000006649$
II Olms	11,85 - 12,85	$\frac{p_x}{p} = 2,329$	$\frac{\text{hit}}{\text{hit}'} = 2,320$	$f_{II} = 0,00000006656$

350,27

$$\frac{\pi}{f} = \sqrt{\frac{F}{\mu} - d^2} \quad d = -\frac{1}{f} \log \text{hit}$$

$$\mu = 23500$$

$$J = 0,790 \quad T = 610,75$$

$$d = 0,000286$$

$$T = 610,06 \dots ?$$

$$d^2 = 0,000000149$$

$$\left(\frac{\pi^2}{f^2} + d^2 \right) \mu = F$$

$$(0,00002646 + 0,00000015) 23500 = F =$$

$$F = 0,625$$

$$F \frac{x}{L} = f. s. r. m. c$$

$$r = 14,95$$

$$m = 100,04$$

$$\frac{31}{1000}$$

$$0,000297 = \pi r^2$$

$$L = 635,3$$

$$0,000950$$

$$\text{Other along } 288010 \text{ gram}$$

$$\frac{2826}{1540}$$

$$2 \times \text{length } 17910 = 25820$$

$$s = 10,83$$

$$I \text{ bit}$$

$$II \text{ bit}$$

$$f_I =$$

Ms 5106/19

$$\sin \delta = 0,14493$$

$$\cos \delta = 0,98944$$

$$\sin 2\delta = 0,28680$$

$$\cos 2\delta = 0,95799$$

$$\begin{array}{r} a \left\{ \begin{array}{l} + 0,0000674 \\ + 0,0006227 \\ \hline + 0,0006901 \end{array} \right. \end{array}$$

$$\begin{array}{r} b \left\{ \begin{array}{l} + 0,0000099 \\ - 0,0042513 \\ \hline - 0,0042414 \end{array} \right. \end{array}$$

A}

B}

MAGYAR
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KÖNYVTÁRA

2

II. lóg. I. hat m' 35 cm. távolból (közepe)

621'304 $\epsilon_1 = 0$ ford. I, II 0'6143 gr

620'0754 (-0'25) 0 mgy. 2'4

12286 gr

II. lóg I. hat 45 cm.

I, II.

620'4650

$\epsilon_1 - 0'82$

0'2267 gr

620'9184

0'4534

II lóg III hat 35 cm.

620,9610

620,4232

0,5378

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~~+5,1~~
~~-0,8~~
-6,0
+6,0
-5,9
 $\epsilon_1 + 0,02$

II. - III. 35 cm.

0,2689 gr.

+5,8
-4,0
+5,8

II. lóg III. hat 45 cm. távolból

620,5940

620,7923

0,1983

0,6
-3,2
1,2
-3,1
-0,98
-2,2
1,6
-2,0

II. - III. 45 cm.

0,0992 gr.

I. kg III. hat 35 cm. Tawallat

618,8280 gr.

619,4131 gr.

0,5851

-5,4

2,2

-5,4

-1,6

-0,6

-2,2

-0,8

I. - III. 35 cm. tas. 0,2926 gr.

619,2295

619,0125

0,2170

-4,5

-3,4

4,2

-3,2

0,45

I. - III. 45 cm. tas. 0,1085 gr.

-5,8

9

-5,6

1,65

$$P = \frac{3 M m'}{r^4}$$

$$r = 35 \text{ cm}$$

$$r = 45 \text{ cm}$$

$$P_{12} = 3 \frac{m_1 m_2}{r^4}$$

$$m_1 m_2 = 307278000$$

$$m_1 m_2 = 303859000$$

$$P_{23} = 3 \frac{m_2 m_3}{r^4}$$

$$m_2 m_3 = 134506000$$

$$m_2 m_3 = 132964000$$

$$P_{31} = 3 \frac{m_3 m_1}{r^4}$$

$$m_3 m_1 = 146361000$$

$$m_3 m_1 = 145429000$$

r - so ne mishteriger mind an reduction.

$$m_1 m_2 = 299301000$$

$$m_2 m_3 = 130970000$$

$$m_3 m_1 = 143248000$$

$$m_1 = 18093 \text{ C.S.S.}$$

$$m_2 = 16542 \text{ C.S.S.}$$

$$m_3 = 7917 \text{ C.S.S.}$$

I log II 35 cm.

619,7280 g.

618,5368 gr

1,1912

0,5956 gr

-1,8
0,5
-1,8
-0,65
-3,2
1,0
-3,2
-1,2
24

45 cm.

618,9070 (-0,62)

619,3497

0,4427

0,2214 gr

I log III 35 cm.

619,3966

-0,25

618,8448

0,5512

0,2756 gr

619,0220

-0,4

45 cm

619,2269

0,2049

0,1024 gr

1225 25^x = 1500625
45^x = 4100625

500208
1004
1366875
27338
490,67000
1329,538000

II log III

35 min.

620'4550 (-2'4)

620'9603

0'5053

0'2526

45 min.

620'7935 (-0'4)

620'6065

0'1870

0'0935

$$IV - I = H.$$

$$II - I = D.$$

$$\begin{array}{r} 272,5 \\ - 265 \\ \hline \end{array}$$

118.

205

$$\begin{array}{r} 86 \\ \hline 249 \\ 1034 \\ \hline 1455 \\ 36,4 \\ \hline \end{array}$$

$$\begin{array}{r} 205,5 \\ 42,5 \\ \hline 163 \\ \hline \end{array}$$

$$2 \times 7 = -66,28$$

$$49 = -7,5$$

$$\begin{array}{r} 446 \\ 242,5 \\ \hline 1025 \end{array}$$

$$\begin{array}{r} 394,5 \\ 205,5 \\ \hline 189,0 \\ 163 \\ \hline 26 \\ 6,5 \\ \hline \end{array}$$

MAGYAR
TUDOMÁNYOS AKADEMIA
BUDAPEST

$$\begin{array}{r} 15148'0 \\ 30089 \\ 93425' \\ \hline 14711 \quad 1759 \\ \hline \end{array}$$

$$\begin{array}{r} 000001 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 160000 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 1814 \\ 8901 \\ \hline \end{array}$$

$$\begin{array}{r} 20094 \\ 46000 \\ \hline 106094 \end{array}$$

$$\begin{array}{r} 2811 \\ 1782 \\ \hline 16097 \end{array}$$

$$\begin{array}{r} 129 \\ 218091 \end{array}$$

$$05'250$$

$$14044$$

$$0'28$$

$$1991$$

$$8'28$$

$$1278$$

$$1756$$

19 222,2
 20 222,0
 21 220,7
 23 218,1
 25 215,5
 28 211,4
 31 - 207,0

han on

32 - 205,7 $25:16,3 = 15$
 35 200,8 $\frac{163}{870} \quad 115$
 38 194,8
 41 187,3
 44 177,3 $2,5:1,15 = 2,2$
 45 173,3 $\frac{23}{20}$

$\frac{0 \ 5 \ 5 \ 1 \ 0}{1 \ 4 \ 0 \ 6 \ 8}$
 $\frac{10 \ 10 \ 10 \ 10 \ 10}{1 \ 4 \ 8 \ 4 \ 4 \ 0}$

11,6

802 $\frac{1 \ 1 \ 6 \ 2 \ 4 \ 4 \ 5}{1}$ $\frac{1 \ 4 \ 0 \ 8 \ 4 \ 2 \ 2}{1}$
 $\frac{1 \ 1 \ 5 \ 1}{1}$ $\frac{1 \ 1 \ 5 \ 1}{1}$

$4,1:11,6 = 35,3$
 $\frac{348}{620}$
 $\frac{560}{400}$

$4,1:1,35 = 3,0$
 $\frac{400}{50}$

$\frac{4 \ 1 \ 8 \ 1 \ 8 \ 0 \ 0}{0 \ 8 \ 6 \ 1 \ 0 \ 1}$
 $\frac{10 \ 10 \ 10 \ 10 \ 10}{1 \ 4 \ 5 \ 7 \ 4 \ 1 \ 0}$ $\frac{4 \ 0 \ 0 \ 4}{60}$

$1,1 \ 5,1 = 0,2$
 $1,2:1,2 = 10$

$\frac{0 \ 0 \ 0 \ 1 \ 0 \ 2 \ 5}{1}$ $\frac{0 \ 0 \ 0 \ 6 \ 5 \ 8 \ 9}{1}$ $\frac{1 \ 6 \ 0}{3 \ 7 \ 5}$

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 KÖNYVTÁRA

$\frac{0 \ 1 \ 0 \ 2}{1}$ $\frac{0 \ 1 \ 0 \ 2}{1}$ $\frac{1 \ 6 \ 0 \ 0 \ 1}{60}$

$\frac{2 \ 5}{1 \ 5 \ 1}$
 $\frac{1 \ 9 \ 0}{0 \ 6 \ 1}$
 $\frac{1 \ 5 \ 1}{2 \ 1 \ 1 / 1 \ 7 \ 2 \ 7 / 1 \ 1 \ 2}$

$\frac{2 \ 5}{2 \ 5}$ $\frac{2 \ 5}{2 \ 5}$

$\frac{0 \ 9 \ 8 \ 2}{2 \ 3 \ 6 \ 0}$
 $\frac{0 \ 2 \ 9}{1 \ 5 \ 4}$
 $\frac{1 \ 5 \ 1}{1 \ 2 \ 5 / 1 \ 5 \ 5}$ $\frac{1 \ 5 \ 1}{1 \ 2 \ 5 / 1 \ 5 \ 5}$ $\frac{1 \ 5 \ 1}{1 \ 2 \ 5 / 1 \ 5 \ 5}$ $\frac{1 \ 5 \ 1}{1 \ 2 \ 5 / 1 \ 5 \ 5}$

~~$x^2 = 3x^2$~~

$$C = 10$$

$$X' = \frac{3x^2 - 6xc - r^2}{r^5} \frac{M}{\varepsilon^3} = \frac{3x^2 - 60x - r^2}{r^5} \frac{M}{\varepsilon^3}$$

$$Y = \frac{3xy - 6yc}{r^5} \frac{M}{\varepsilon^3} = \frac{3xy - 60y}{r^5} \frac{M}{\varepsilon^3}$$

$$Z = \frac{-3xc + 6c^2 - 2r^2}{r^5} \frac{M}{\varepsilon^3} = \frac{-30x + 600 - 2r^2}{r^5} \frac{M}{\varepsilon^3}$$

$$y = 0 \text{ ra}$$
$$X' = \frac{3x^2 - 60x - (x^2 + 100)}{(x^2 + 100)\sqrt{x^2 + 100}}$$

$$X = 0$$

$$x = 15 \pm 5\sqrt{71} \approx$$
$$x = +31,5830 \quad x = -1,5830$$
$$31,5836$$

$$y = 0$$

$$Z = \frac{-30x + 600 - 2(x^2 + 100)}{(x^2 + 100)\sqrt{x^2 + 100}}$$

$$Z = 0$$
$$x = -\frac{15}{2} \pm \frac{5}{2}\sqrt{41}$$
$$x = -23,5078$$
$$x = +8,5078$$

$x = +1$	$-0,001541$	$+0,004175$
$x = -1$	$-0,000370$	$+0,003590$
$x = +2$	$-0,001922$	$+0,004097$
$x = -2$	$+0,000254$	$+0,003010$
$x = +20$	$-0,000009$	$+0,000004$
$x = -20$	$+0,000034$	$+0,000018$
$x = +3$	$-0,005071$ $-0,002112$	$+0,003805$
$x = -3$	$+0,000790$ $+0,000000$	$+0,002354$
$x = +4$	$-0,002125$	$+0,003367$
$x = -4$	$+0,001187$	$+0,001711$
$x = +5$	$-0,002003$	$+0,002862$
$x = -5$	$+0,001401$	$+0,001144$
$x = +6$	$-0,001799$	$+0,002355$
$x = -6$	$+0,001539$	$+0,000886$
$x = 0$	$-0,001000$	$+0,004000$

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KÖNYVTÁRA

	X	Z
$x = +10$	-0,000884	+0,000884
$x = -10$	+0,001277	-0,000177
$x = +7$	-0,001557	+0,000740
$x = -7$	+0,001542	+0,001889
$x = +8$	-0,001212	+0,000093
$x = -8$	+0,001475	+0,001486
$x = +9$	-0,001084	-0,000072
$x = -9$	+0,001366	+0,001152
$x = +12$	-0,000527	-0,000250
$x = -12$	+0,000916	+0,000476
$x = +14$	-0,000361	-0,000273
$x = -14$	+0,000754	+0,000284
$x = +16$	-0,000229	-0,000247
$x = -16$	+0,000573	+0,000154

825 a 2 July 1949

$$\frac{45}{2} \pm \sqrt{\frac{2025}{4} + 50 - 400}$$

$$\begin{array}{r} 506,25 \\ 350 \\ \hline 156,25 \end{array}$$

$$\begin{array}{r} 22,5 \\ 12,5 \end{array}$$

$$18 \pm \sqrt{324 + 128 - 580}$$

$$\frac{39}{2} \pm \sqrt{\frac{1521}{4} + 98 - 520}$$

$$\begin{array}{r} 21 \pm \sqrt{441 + 72 - 460} \\ 513 \\ \hline \sqrt{52} \end{array}$$

$$\begin{array}{r} 21 \\ 7,28 \end{array}$$

$$-30 \pm \sqrt{900 + 3200 - 2500}$$

$$45 \pm \sqrt{2025 + 200 + 500}$$

$$\begin{array}{r} 45 \\ 391 \end{array} \quad \begin{array}{r} 2725 \\ 45 \\ \hline 52,2 \end{array}$$

6

$$-60 \pm \sqrt{3600 + 7200 - 360 - 100}$$

$$\begin{array}{r} \sqrt{7100} \\ -60 \\ \hline 8428 \end{array}$$

$$\begin{array}{r} 75 \\ 140 \end{array} \pm \sqrt{5625 + 1800 + 1800 - 100}$$

$$\begin{array}{r} 95,6 \\ 75 \\ \hline 1706 \end{array}$$

MAOYAK
JUDOMATOS AKADEMIK
KONYIARA

$$x = 30.$$

$$X = \frac{27 - 180}{25} - x^2$$

$$2x^2 - y^2$$

$$y = \frac{(9 - 60)y}{25}$$

$$\frac{y}{x} = k$$

$$\frac{y}{x} = k$$

$$Z = \frac{-900 + 600 - 2x^2}{25}$$

$$a \pm b$$

$$-a \pm b$$

$$3x^2 - 60x - x^2 - y^2 - 100 = 3kxy - 60ky$$

$$2x^2 - y^2 - 3kxy - 60x + 60ky - 100 = 0$$

$$y = \frac{60k - 3kx}{2} \pm \sqrt{\left(\frac{60k - 3kx}{2}\right)^2 + 2x^2 - 60x - 100}$$

$$k = 1 \quad x = 10 \quad 20$$

$$y = -15 \pm \sqrt{225 + 1700 - 1800}$$

$$y^2 = 2x^2 - 60x - 100$$

$$y = \frac{60 - 3x}{2k}$$

$$y = \frac{60 - 3x}{2k} \pm \sqrt{\left(\frac{60 - 3x}{2k}\right)^2 + 2x^2 - 60x - 100}$$

$$y = 15 \pm \sqrt{225 + 1700 - 1800}$$

$$15 \pm \sqrt{125}$$

$$11, 1800$$

$$y = 30 \pm \sqrt{800} \quad 28, 2847$$

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KÖNYVTÁRA

$$y = -\frac{15}{2} \pm \sqrt{\frac{225}{4} + 1250 - 1500 - 100}$$

$$27^2$$

$$y = -\frac{21}{2} \pm \sqrt{\frac{441}{4} + 1458 - 1620 - 100}$$

$$28^2 \quad 784$$

$$y = -12 \pm \sqrt{144 + 1568 - 1680 - 100}$$

$$29^2 \quad 841$$

$$y = -\frac{27}{2} \pm \sqrt{\frac{729}{4} + 1682 - 1740 - 100}$$

$$\frac{18225}{158}$$

$$13,5$$

$$4,925$$

$$13,5$$

$$\frac{57}{2} \pm \sqrt{\frac{3249}{4} + 2 - 160}$$

$$\frac{812,25}{158}$$

$$28,5$$

$$25,6$$

$$654,25$$

204  55

0,4150
2,2672
0,1478-2

7782-4
2,2672
0,5110-6

0,1987
2,1072
0,0915-2

5315-4
2,1072
0,4213-6

0,9958-1
7160-6
0,7118-6
2900-1
0,4218-5

8935-1
7160-6
0,095-6
2900-1
3195-5

1157-1
1038-1
4639-4
6834-6

483

At At At
At At
P At

0,3802
2,3579
0,0223-2

1,1139
1,9777
0,1362-1

0,6902-6
6850-1
0,3758-6
2900-1
0,0858-5

1,1139
2,3579
0,1560-2

7782-5
1,9777
0,8005-7

МАГЯН
ИДУМАТЪОС АКАДЕМИ
КОММУНА

1064-1
4639-4
7188-2
3491-6

0,9956-4
2,3579
0,6377-6

0,6532-6
3986-1
0,0518-6
2900-1
0,7618-6

0,8338-1
3766
2104

~~1,1732~~
2,0828
0,0904-1

0,2041-4
2,0828
0,1213-6

58

1,3820
2,2856
0,0964-1

0,8325-4
2,2856
0,5469-6

0,8338-1
2856
1194

0,8338-1
0864
9202

0,8338-1
0334
8672

0,6812-6
0,6570-1
0,3382-6
2900-1
0,0482-5

0,1818-1
4639-4
0192-1
0,6649-6

0,7709-6
0859-1
0,6850
0,8568-7
3010-1
0,5558-6

0,6418-1
4639-4
8795-2
0,7252-6

~~1,4914~~
2,7342
0,7572-2

0,3202-3
2,7342
0,6460-6

6366x60
111

1,4472
2,7679
0,6793-2

1461-3
2,7679
0,3782-6

111
60
1440 0450
124,5367
0,5089-5
4269-1
0,9358-6

381960:111=34410
333
489
444
456
444
120

$$\underline{X=0}$$

$$r^2 = 100 + y^2$$

$$X' = -\frac{y^2}{r^5}$$

$$y' = -\frac{60y}{r^5}$$

$$z' = \frac{600 - 2r^2}{r^5}$$

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KÖNYVTÁRA

y	X	y	Z
1	-0,000985	-0,000585	+0,007882
2	-0,000940	-0,000888	+0,003554
3	-0,000879	-0,001451	+0,008079
4	-0,000800	-0,001656	+0,002539
5	-0,000716	-0,001717	+0,002003
6	-0,000621	-0,001669	+0,001521
7	-0,000520	-0,001550	+0,001114
8	-0,000426	-0,001394	+0,000789
9	-0,000341	-0,001225	+0,000540
10	-0,000254	-0,001063	+0,000354
105			
12	-0,000262	-0,000773	+0,000120
1050			
14	-0,000196	-0,000557	+0,000005
47			
16	-0,000149	-0,000401	-0,000047
60			
20	-0,000089	-0,000214	-0,000072

$$x=0 \quad y=1 \quad r^2=101$$

$$\frac{1}{10201.10,0499}$$

$$\frac{1}{102519}$$

$$\underline{-985}$$

$$-585$$

$$398$$

$$+2882$$

MAJAK
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$$y=0$$

$$y=2$$

$$r^2=104$$

$$\frac{1}{10816.10,1980}$$

$$\frac{1}{110702}$$

$$-943$$

$$-1088$$

$$292$$

$$-3xy + 6y = 0$$

$$x=20$$

$$3 \quad r^2=109$$

$$-0,000879$$

$$-0,001451$$

$$382$$

$$+3079$$

$$4 \quad r^2=116$$

$$-0,008005$$

$$240$$

$$-1656$$

$$368$$

$$+2529$$

$$5 \quad r^2=125$$

$$125$$

$$300$$

$$350$$

$$-716$$

$$-1717$$

$$+2000$$

$$6 \quad r^2=136$$

$$136$$

$$360$$

$$328$$

$$-631$$

$$-1669$$

$$+1521$$

$$7 \quad r^2=149$$

$$149$$

$$420$$

$$302$$

$$-550$$

$$-1550$$

$$+$$

$$8 \quad r^2=164$$

$$164$$

$$480$$

$$272$$

$$-476$$

$$9 \quad r^2=181$$

$$181$$

$$540$$

$$238$$

$$-411$$

$$10 \quad r^2=200$$

$$200$$

$$600$$

$$200$$

$$354$$

$$12 \quad r^2=244$$

$$244$$

$$720$$

$$112$$

$$246$$

$$14$$

$$296$$

$$840$$

$$+8$$

$$-196$$

$$256$$

$$960$$

$$-112$$

$$60$$

$$r^2=500$$

$$500000$$

$$5,590175$$

$$500$$

$$1200$$

$$\underline{\underline{k=1}}$$

$$y = \frac{60-2x}{2} \pm \sqrt{\left(\frac{60-2x}{2}\right)^2 + 2x^2 - 60x - 100}$$

$$x=30 \quad -y_1 = -26,1803 \quad y_2 = -3,8197$$

$$x=0 \quad y_1 = +58,2843 \quad y_2 = +1,7157$$

$$x=29 \quad y_1 = -18,425 \quad y_2 = -8,575$$

$$x=1 \quad y_1 = +54,1 \quad y_2 = +2,9$$

$$x=5 \quad y_1 = +35,0 \quad y_2 = 10$$

$$x=6 \quad y_1 = +28,28 \quad y_2 = +13,72$$

$$x=40 \quad y_1 = -70 \quad y_2 = +10$$

$$x=-10 \quad y_1 = +97,2 \quad y_2 = -7,2$$

$$x=60 \quad y_1 = -144,26 \quad y_2 = +24,26$$

$$x=30 \quad y_1 = +170,6 \quad y_2 = -20,6$$

MAGYAR
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KÖNYVTÁRA

0 45 90 135 180

$$2x^2 - y^2 - 6cx = 0$$

$$A=2 \quad B=0 \quad C=-1 \quad D=3c \quad E=0 \quad F=-c^2$$

$$\alpha = -2 \quad \Delta = -18c^2 \quad \text{hyperbola,}$$

$$y^2 = 2x^2 - 6cx$$

$$y^2 = -6cx + 2x^2$$

$$y^2 = -6c\xi - 6c\alpha + 2\xi^2 + 2\alpha^2 + 4\xi\alpha$$

$$4c^2 - 2x^2 - 2y^2 - 3cx = 0$$

$$x^2 + y^2$$

$$-6c\alpha + 2\alpha^2 = 0$$

$$2\alpha - 6c = 0$$

$$2\alpha = 6c$$

$$\alpha = 3c$$

$$x^2 =$$

$$2\alpha^2 - 6ac - b^2 + c^2$$

$$2x^2 - y^2 - 6cx - c^2 = 0$$

$$\alpha = -2 \quad \Delta = +2c^2 + 9c^2 = 11c^2$$

$$2\xi^2 + 2\alpha^2 + 4\xi\alpha - 6c\xi - 6c\alpha - c^2 - y^2$$

$$2x^2 - 6cx - c^2 = 0$$

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$$y = 0$$

$$x = 0$$

	φ	λ	δ	2ℓ
Champsigny	48'7	-10,7 ₇₁	34,2	0,19545
Corbelle	36'9	-7,4 ₄₉	41,8	569
Melun	31,2	-18,7 ₁₂₅	36,8	605
Grotz	44,4	-23,1 ₁₅₄	26,0	603
Charenton	48,9	-5,8		
Grotz	44,4	-23,1		
Quenouille	47,1	-14,5		
Englism	58,8	+2,2		
Wormesville	47,1	-8,8 ₅₉	37,1	541
Corbelle	36,9	-7,4 ₄₉	41,8	569
Clamart	48,2	+5,3 ₊₉₅	50,1	525
Englism	58,8	+2,2 ₊₁₅	39,4	470
Neuilly	17,5	-13,3 ₋₈₉	29,5	544
Grotz	44,4	-23,1 ₋₁₅₄	26,0	603
Draveil	41,2	-2,7 ₋₂₅	44,4	560
Clamart	48,2	+5,3 ₊₂₅	50,1	525

2
1

1 jour. 1 nuit.

	$\delta' - \delta$	$\lambda' - \lambda$	Δ'	Δ'	Δ'	α
Chaz. - Melun	-2,6	-0,00060	185	-0,0141	-0,00000324	$\Delta_1' = 0,127$
Grotz. - Corb.	-15,8	+0,00034	128	-0,0124	+0,00000266	$\Delta_1' = 113^\circ$

$$\frac{H \sin(\lambda' - \lambda) - \Delta \cos(\delta' - \delta) + C \sin \delta}{0,00000209 + 0,0000048 + 0,0000058} = -0,0000072$$

2 jrs.

Corb. - Englism	+2,4	+0,00099	228	+0,0705	0,0000043	$\Delta_2' = 0,146$
Clamart - Bonne	+13,0	-0,00006	95	+0,037	-0,0000006	$\Delta_2' = 103^\circ$

$$\frac{+0,0000122 - 0,0000022 + 0,0000058}{+0,0000058} = +0,0000124$$

Draveil - Neuilly	+14,9	+0,00016	121	+0,123	+0,00000132	$\Delta_3' = 0,152$
Clamart - Grotz	+24,1	-0,00068	193	+0,125	-0,00000352	$\Delta_3' = 112^\circ$

$$-0,00000712 + 0,0000046 + 0,0000058 = 0,0000032$$

$$\cos^2 \varphi - \cos^2 \varphi \sin^2 \lambda + \sin^2 \varphi \sin^2 \lambda$$

$$\cos^2 \varphi + \sin^2 \lambda (\sin^2 \varphi - \cos^2 \varphi) = \cos^2 \varphi - \sin^2 \lambda \cos 2\varphi$$

$$= \frac{1 + \cos 2\varphi}{2} - \sin^2 \lambda \cos 2\varphi$$

$$= \frac{1 + \cos 2\varphi}{2} - \cos 2\varphi \frac{1 - \cos 2\lambda}{2}$$

$$= \frac{1}{2} - \frac{1}{2} \cos 2\varphi \cos 2\lambda$$

$$\cos^2 \varphi \cos^2 \lambda + \sin^2 \varphi \sin^2 \lambda = \frac{1 + \cos 2\varphi}{2} \cdot \frac{1 + \cos 2\lambda}{2} + \frac{1 - \cos 2\varphi}{2} \cdot \frac{1 - \cos 2\lambda}{2}$$

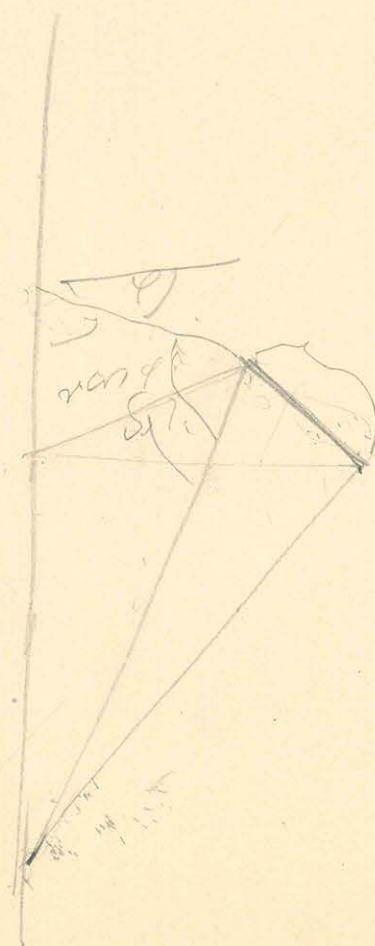
$$= \frac{1}{4} \left[1 + \cancel{\cos 2\varphi \cos 2\lambda} + \cos 2\varphi \cos 2\lambda + 1 - \cancel{\cos 2\varphi \cos 2\lambda} + \cos 2\varphi \cos 2\lambda \right]$$

$$= \frac{1}{2} (1 + \cos 2\varphi \cos 2\lambda)$$

$$\cos^2 \varphi \sin^2 \lambda + \sin^2 \varphi \cos^2 \lambda = \frac{1}{4} \left[(1 + \cos 2\varphi)(1 - \cos 2\lambda) + (1 - \cos 2\varphi)(1 + \cos 2\lambda) \right]$$

$$= \frac{1}{4} \left[1 + \cancel{\cos 2\varphi} - \cancel{\cos 2\lambda} - \cos 2\varphi \cos 2\lambda + 1 - \cancel{\cos 2\varphi} + \cancel{\cos 2\lambda} - \cos 2\varphi \cos 2\lambda \right]$$

$$= \frac{1}{2} (1 - \cos 2\varphi \cos 2\lambda)$$



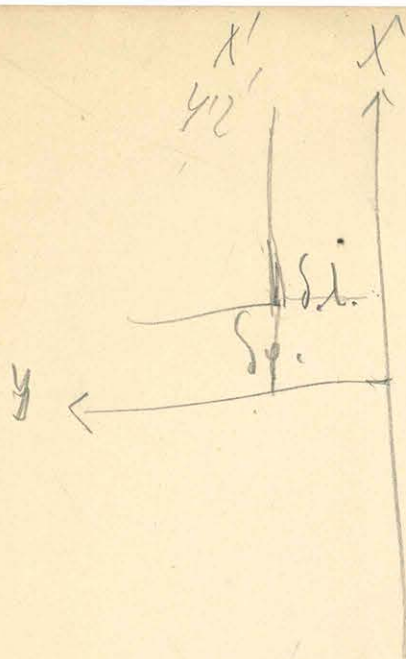
$$\frac{r \cos \varphi \delta \lambda}{r \sin \varphi \delta \varphi}$$

$$\underline{\underline{\delta \lambda \sin \varphi = \varepsilon}}$$

$$r \cos \varphi \delta \lambda = \delta y$$

$$\delta y = \varepsilon$$

$$\varepsilon = \frac{\delta y}{r \cos \varphi} \sin \varphi = \frac{\delta y}{r} \tan \varphi$$



$$X = X' \cos(X, X') + y' \cos(X, Y') + Z' \cos(X, Z')$$

$$Y = X' \cos(Y, X') + y' \cos(Y, Y') + Z' \cos(Y, Z')$$

$$\cos(X, X') = \cos(\delta\lambda) \cos(\delta\phi)$$

$$\cos(X, Y') = \cos(\delta\lambda \sin \phi)$$

$$\cos(X, Z') =$$

+170	195,3	+132,0	171,7
+235,5	49,7	+18,5	60,3 201,7
+288 0	175,3	+162,0	62,7
+242,0	52,7	+4,5	70,4
+272,5	51,7		+235
+12,5	139	+196,5	104
+243,5	30	12,7	76,2
40 -200	107,7	-63,5	25,4
+58,5	184,7	+208,5	57
57,0	78,3	50,0	30
+87,5		+10,5	645 215
+27,0	174,3	+128,5	94
+237,0	40,3	-5	128
+218,0	36	1,6 -9	107
+76,0	150	+196,5	48
+84,0	143,3	+221,5	179
+220	3	+18,0	49
+108,5	207		
+62,5	47		

57,3		22,5	+ 12,0	435	
+ 286,5	500,0	45,0		145	
	18,1	15,0	+ 137,0	764	+ 298,5
26,9	168,5			254,7	119,7
133,5	337,0			66,4	+ 193,0
	112,3			221,3	9
12,1	74,6		+ 200,0	37	- 45
60,5	373,0			12,3	79,7
	746,0		+ 218,0	576	+ 143,0
	248,7			192	+ 66,5
7,0				21	2
25,0			+ 7	7	+ 175,5
13,2	43,0			801	153
66,0	430	+ 83,5		26	+ 89,0
	143				11,3
0,5	67	+ 294,0	22	+ 156,0	62,3
	23,3		7	- 2,5	84
47,1	88	+ 181,0	388		
235,5	29,3		129	+ 3,0	83
				+ 112,0	121
24,0			273	2,3	
454,2		+ 217,0	91	11,5	1,3
271,0			108		
181,0	26	+ 132,5	36	+ 161,5	109,7
	8,7			24,6	
+ 279,0	532	+ 146,5	356	- 123,0	64
	177,0		118,7		
		+ 145	14	+ 79,0	69
- 2,4	269		4,7		
	89,7	+ 106,0	585	+ 257,5	44,3
48,7	107		195		
+ 243,5	35,7	+ 125,5	232	- 5,0	162,3
+ 244,5	58		77		
	19,2	+ 186,0	467	+ 196,0	157,7
	8		156	+ 271,0	25,0
82	571	+ 188,5	47	219,0	
410	190,3				
229,0	39	17,5		16,2	
211,5	176	- 87,5	61	- 81,0	
	58,7				
	53	+ 860	109	+ 244,0	
241,0	17,7	+ 222,0	77	+ 216,0	19
31,9	140	+ 239,5	148	+ 243,0	31,3
159,5	708	1,8			
	236	- 9,0	63,5	+ 53,5	19,3
36,3	73,9		211,7		60
181,5	24,6	+ 7,5	737	+ 281,5	
184,5	74	209,0	6	+ 104,5	
	24,7				
35,2	360				
176,0	120				

$$(1) = \arctan \frac{0,8}{\sqrt{5,16}} = 0,338618$$

$$(2) = \arctan \frac{3,2}{\sqrt{7,56}} = 0,860966$$

$$(3) = \arctan \frac{2}{\sqrt{16,756}} = 0,426689$$

$$(4) = \arctan \frac{2}{\sqrt{10,45,16}} = 1,144383$$

$$II - I = \log \frac{\sqrt{3,56} \cdot \frac{2 + \sqrt{5,16}}{2 + \sqrt{7,56}}}{\sqrt{1,16}} = 0,454600$$

$$III - II = \log \frac{\sqrt{6,56} \cdot \frac{1 + \sqrt{5,16}}{1 + \sqrt{7,56}}}{\sqrt{4,16}} = 0,091369$$

$$\begin{array}{r} 712650 \\ 0,903090 - 1 \\ 0,356325 \\ \hline 0,546765 - 1 \end{array}$$

$$19^{\circ}24'5''$$

$$\begin{array}{r} 331613 \\ 6981 \\ 24 \end{array}$$

$$338618$$

$$\begin{array}{r} 878522 \\ 0,505150 \\ 0,439261 \\ \hline 0,065889 \end{array}$$

$$49^{\circ}19'47''$$

$$\begin{array}{r} 855211 \\ 5527 \\ 228 \end{array}$$

$$\begin{array}{r} 2,27156 \\ 860966 \end{array}$$

$$\begin{array}{r} 4,27156 \\ 4,74955 \end{array}$$

$$\begin{array}{r} 3,27156 \\ 3,74955 \end{array}$$

$$\begin{array}{r} 0,551450 \\ 0,275725 \\ 0,630587 \\ \hline 0,906312 \\ 0,708882 \\ \hline 0,197430 \end{array}$$

$$\begin{array}{r} 0,064458 \\ 0,032229 \\ 0,676653 \\ \hline 0,708882 \end{array}$$

$$\begin{array}{r} 0,295413 - 1 \\ 0,627784 - 1 \\ \hline 0,657629 - 1 \end{array}$$

$$\begin{array}{r} 795880 \\ 0,397940 \\ 0,514755 \\ \hline 0,912695 \\ 0,30304 - 1 \end{array}$$

$$\begin{array}{r} 0,876904 \\ 0,408452 \\ 514755 \\ \hline 0,923207 \\ 883526 \\ \hline 0,039681 \end{array}$$

$$\begin{array}{r} 16720 \\ 473 \\ \hline 2,085 \end{array}$$

$$\begin{array}{r} 712650 \\ 0,356225 \\ 0,572979 \\ \hline 0,930304 \end{array}$$

$$\begin{array}{r} 619093 \\ 309547 \\ 572979 \\ \hline 735568 \\ 8,83526 \end{array}$$

$$\begin{array}{r} 338618 \\ 860966 \\ \hline 1,199584 \end{array}$$

$$\begin{array}{r} 1,745 \\ 473 \\ \hline 1,272475 \end{array}$$

$$\begin{array}{r} 1272 / 2085 - 1164 \\ 1272 \\ \hline 8130 \\ 7632 \end{array}$$

$$\begin{array}{r} 14925 / 127000 / 852 \\ 119400 \\ \hline 85060 \\ 746258570 \\ \hline 103750 \end{array}$$

$$\begin{array}{r} 4148 \\ 581 \\ \hline 4729 \end{array}$$

$$\begin{array}{r} 0,598583 - 2 \\ 627784 - 1 \\ \hline 960799 - 2 \end{array}$$

$$\begin{array}{r} 0,86 \\ 1,144383 \\ 4577532 \end{array}$$

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$$\begin{array}{r} 0,426689 \\ 0,2560139 \\ \hline 0,682702 \\ 454600 \\ 182738 \end{array}$$

$$\begin{array}{r} 1,320040 \\ 457753 \\ \hline 0,862287 \end{array}$$

$$\begin{array}{r} 1,437145 \\ 1,199584 \\ \hline 2,37561 \end{array}$$

$$\begin{array}{r} 114 \\ 570 \\ \hline 58,14 \end{array}$$

$$\# (1) = \arctg \frac{0,2}{\sqrt{5,01}} = 0,089114$$

$$(2) = \arctg \frac{3,8}{\sqrt{8,61}} = 0,913253$$

$$(3) = \arctg \frac{2}{1,9\sqrt{8,61}} = 0,244436$$

$$(4) = \arctg \frac{2}{9,1\sqrt{5,01}} = 1,459242$$

$$(II - II) = \log = \frac{\sqrt{4,01} \cdot (2 + \sqrt{5,01})}{\sqrt{1,01} \cdot (2 + \sqrt{8,61})} = 0,607096$$

$$(III - III) = \log = \frac{\sqrt{7,01} \cdot (1 + \sqrt{5,01})}{\sqrt{4,01} \cdot (1 + \sqrt{8,61})} = 0,125659$$

$$\begin{array}{r} 699838 \\ 0,201020-1 \\ 349919 \\ \hline 0,951111-2 \end{array}$$

$$50^{\circ} 6' 21''$$

$$\begin{array}{r} 0,087267 \\ 001745 \\ 102 \\ \hline 0,089114 \end{array}$$

$$\begin{array}{r} 0,925000 \\ 0,579784 \\ 0,467502 \\ \hline 0,112282 \end{array}$$

$$52^{\circ} 19' 32''$$

$$\begin{array}{r} 907571 \\ 5527 \\ 155 \\ \hline 913253 \end{array}$$

$$\begin{array}{r} 0,201020 \\ 0,467502 \\ \hline 0,833528-1 \\ 0,278754 \\ \hline 0,554774-1 \end{array}$$

$$19^{\circ} 44' 5''$$

$$\begin{array}{r} 331613 \\ 12799 \\ 24 \\ \hline 344486 \end{array}$$

$$\begin{array}{r} 0,301020 \\ 0,349919 \\ \hline 0,951111-1 \end{array}$$

$$83^{\circ} 36' 51''$$

$$\begin{array}{r} 1,448623 \\ 10472 \\ 244 \\ \hline 1,459342 \end{array}$$

$$\begin{array}{r} 2,22820 \\ 292428 \end{array}$$

$$\begin{array}{r} 4,22820 \\ 4,92428 \end{array}$$

$$\begin{array}{r} 3,22820 \\ 3,92428 \end{array}$$

$$\begin{array}{r} 662701 \\ 0,321851 \\ 0,627192 \\ \hline 0,959043 \\ 0,695285 \\ \hline 0,263658 \end{array}$$

$$\begin{array}{r} 0,004221 \\ 0,002161 \\ 0,692224 \\ \hline 0,695285 \end{array}$$

$$\begin{array}{r} 0,421041-1 \\ 627784-1 \\ \hline 0,783257-1 \end{array}$$

$$\begin{array}{r} 0,688872 \\ 34444 \\ \hline 0,654428 \end{array}$$

$$\begin{array}{r} 0,881285 \\ 0,440693 \\ 0,510217 \\ \hline 0,951010 \\ 896427 \\ \hline 0,054573 \end{array}$$

$$\begin{array}{r} 602144 \\ 0,301572 \\ 0,594865 \\ \hline 896437 \end{array}$$

$$\begin{array}{r} 0,6978 \\ 0,736978-2 \\ 627784-1 \\ \hline 0,1099194-1 \end{array}$$

$$\begin{array}{r} 102 \\ 814 \end{array}$$

$$\begin{array}{r} 0,654428 \\ 0,607096 \\ 0,251218 \\ \hline 1,512842 \\ 1,680936 \\ 1164516 \\ \hline 0,516420 \end{array}$$

$$\begin{array}{r} 0,1459242 \\ 0,1621491 \\ 89114 \\ 913253 \\ \hline 1164516 \end{array}$$

2



$$0,414783 = 0,8\alpha + 0,64\beta$$

$$0,06088 = 0,2\alpha + 0,09\beta$$

$$0,48704$$

$$0,16235$$

$$0,25243 = 0,4\beta$$

$$\begin{array}{r} 6088 \\ 0,0567972 \\ \hline 0,00908 \\ 0,001360 \end{array}$$

$$\begin{array}{r} 5680 \\ 0,0408 \\ 6088 \end{array}$$

$$\beta = 0,63108 \quad 857.$$

$$\alpha = 0,01360$$

$$\begin{array}{r} 106871 \\ 172914 \\ \hline 0,932957 \end{array}$$

$$0,00816$$

$$\begin{array}{r} 63108 \\ 64 \\ \hline 252432 \\ 278648 \\ \hline 04038912 \\ 1088 \\ \hline 41477 \end{array}$$

$$\begin{array}{r} 1495 / 12790 \\ 63108 \\ 36 \\ \hline 278648 \\ 189324 \\ \hline 02271888 \\ 816 \\ \hline 23535 \end{array}$$

MAOYAR
UDOMKAYOS AKADEMIA
KONYVIAIRA

$$0,465$$

$$12,125$$

$$\underline{\underline{kl^3}}$$

$$12,125$$

$$\frac{1}{27}$$

$$\begin{array}{r} 27,4 \\ 191 \\ 27 \\ \hline 25,58 \\ 191 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 487 \\ 487 \end{array}$$

$$2l^3 + pl^4$$

$$4\frac{l^4}{4} + pl^5$$

$$\begin{array}{r} 0,819536-1 \\ 0,500084-1 \\ 477121 \end{array}$$

$$\begin{array}{r} 0,096741 \end{array}$$

$$1,24952$$

$$\begin{array}{r} 0,249904 \\ 829 \\ \hline 25719 \end{array}$$

$$\begin{array}{r} 1,083682 \\ 1,172914 \\ \hline 0,09768-1 \\ 0,122529-2 \\ 0,477121 \\ \hline 0,520428-2 \end{array}$$

$$\begin{array}{r} 0,0321458 \\ 0,0082864 \end{array}$$

$$0,51642 = 0,9\alpha + 0,81\beta$$

$$0,06088 = 0,3\alpha + 0,09\beta$$

$$0,18264$$

$$0,33378 = 0,54\beta$$

$$\ln \beta = 0,1791066 - 1$$

$$\beta = 0,618710$$

$$\alpha = 0,07750$$

$$\begin{array}{r} 0,522460 - 1 \\ 0,722294 - 1 \\ \hline 0,791066 - 1 \\ 0,908485 - 1 \\ \hline 0,899551 - 1 \\ 51642 \\ 500670 \\ \hline 901575 \\ 0,04750 \end{array}$$

$$\begin{array}{r} 0,07575 \\ 51642 \\ \hline \end{array}$$

$$\begin{array}{r} 618710 \\ 494488 \\ \hline 5006691 \\ 1895 \\ \hline 51642 \end{array}$$

$$\begin{array}{r} 0,0556299 \\ 525 \\ \hline 813 \\ 525 \\ \hline 6088 \end{array}$$

$$61811$$

$$26$$

$$\begin{array}{r} 270866 \\ 185433 \\ \hline 2225196 \end{array}$$

$$\begin{array}{r} 40,01050 \\ 22252 \\ \hline 0,22202 \end{array}$$

$$0,624251 = \alpha + \beta$$

$$0,414779 = 98\alpha + 0,64\beta$$

$$\begin{array}{r} 618710 \\ 175 \\ \hline 6255 \end{array}$$

$$0,4994808$$

$$414779$$

$$0,084702 = 0,16\beta$$

$$\ln k = 0,1723774$$

$$\beta = 0,529350$$

$$\alpha = 0,095001$$

$$0,927894 - 2$$

$$0,204120 - 1$$

$$0,723774 - 1$$

$$624351$$

$$529250$$

$$0,095001$$

$$423480$$

$$52925$$

$$476415$$

$$85501$$

$$2816$$

$$561916$$

$$0,0855009$$

$$0,0760008$$

$$\begin{array}{r} 52925 \\ 64 \end{array}$$

$$\begin{array}{r} 211740 \\ 217610 \\ \hline 3287840 \\ 760008 \\ \hline 4147848 \end{array}$$

$$\begin{array}{r} 423480 \\ 52925 \\ \hline 428773 \\ 4285501 \\ \hline 514274 \end{array}$$

$$1) = \arctan \frac{1,4}{\sqrt{5,49}} = 0,538584$$

$$2) = \arctan \frac{2,6}{\sqrt{6,69}} = 0,786997$$

$$3) = \arctan \frac{2}{1,3\sqrt{6,69}} = 0,536582$$

$$4) = \arctan \frac{2}{0,7\sqrt{5,49}} = 0,882921$$

$$II-II = \arctan \frac{\sqrt{2,69}}{\sqrt{1,49}} \cdot \frac{2+\sqrt{5,49}}{2+\sqrt{6,69}} = 0,240853$$

$$III-III = \arctan \frac{\sqrt{5,69}}{\sqrt{14,49}} \cdot \frac{1+\sqrt{5,49}}{2+\sqrt{6,69}} = 0,048140$$

$$\begin{array}{r} 0,729572 \\ 0,146128 \\ 0,369786 \\ \hline 0,776342 - 1 \\ 30^{\circ} 51' 31'' \end{array}$$

$$\begin{array}{r} 522600 \\ 14874 \\ 150 \\ \hline 538584 \end{array}$$

$$\begin{array}{r} 0,825426 \\ 0,414977 \\ 0,412713 \\ \hline 0,002260 \\ 45^{\circ} 8' 56'' \end{array}$$

$$\begin{array}{r} 0,785398 \\ 1327 \\ 272 \\ \hline 786997 \end{array}$$

$$\begin{array}{r} 0,201020 \\ 0,412713 \\ \hline 0,888317 - 1 \\ 0,119943 \\ 0,774364 - 1 \\ 30^{\circ} 44' 38'' \end{array}$$

$$\begin{array}{r} 522600 \\ 12798 \\ 184 \\ \hline 536582 \end{array}$$

$$\begin{array}{r} 0,201020 \\ 0,369786 \\ \hline 0,931244 - 1 \\ 0,845098 - 1 \\ 0,086146 \\ 50^{\circ} 38' 44'' \end{array}$$

$$\begin{array}{r} 872665 \\ 11053 \\ 213 \\ \hline 882931 \end{array}$$

$$\begin{array}{r} 4,34207 \\ \hline 4,58650 \end{array}$$

$$\begin{array}{r} 3,34207 \\ \hline 3,58650 \end{array}$$

$$\cancel{0,019120 - 1}$$

$$\begin{array}{r} 0,429752 \\ 0,214876 \\ 0,627797 \\ \hline 0,852673 \\ 748072 \\ \hline 0,104601 \end{array}$$

$$\begin{array}{r} 172186 \\ 0,086593 \\ 0,661481 \\ \hline 0,748074 \end{array}$$

$$\begin{array}{r} \cancel{0,019526 - 1} \\ 627784 - 1 \\ \hline 0,381752 - 1 \end{array}$$

$$\begin{array}{r} 0,755112 \\ 0,377556 \\ 0,524145 \\ \hline 0,901761 \\ 880794 \\ \hline 0,020907 \end{array}$$

$$\begin{array}{r} 0,652246 \\ 0,226123 \\ 0,554671 \\ \hline 880794 \end{array}$$

$$\begin{array}{r} 0,220292 - 2 \\ 627784 \\ \hline 0,682508 \end{array}$$

$$\begin{array}{r} 0,536582 \\ \cancel{0,221925} \\ 0,160975 \\ 240853 \\ 096280 \\ \hline 1,034690 \end{array}$$

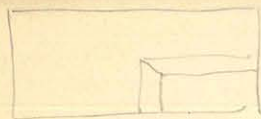
$$\begin{array}{r} 536582 \\ \hline 2756074 \end{array}$$

$$\begin{array}{r} 882921 \\ 6187517 \end{array}$$

$$\begin{array}{r} 1,034690 \\ 375607 \\ \hline 618752 \end{array}$$

$$\begin{array}{r} 538584 \\ 786997 \\ \hline 151587 \\ 1,325581 \end{array}$$

$$\begin{array}{r} 3 \quad 79415938 \\ 0,1386464 \\ 1,32558 \\ \hline 0,06088 \end{array}$$



$$\arctan \frac{BC}{A\sqrt{A^2+B^2+C^2}} = \arctan \frac{(B-l\sin\varphi)C}{(A-l\cos\varphi)\sqrt{A^2+B^2+C^2+l^2-2Al\cos\varphi-2Bl\sin\varphi}}$$

$$\frac{d}{dl} \arctan X = \frac{1}{1+X^2} \left\{ \frac{-C\sin\varphi}{N} - \frac{(B-l\sin\varphi)C}{N^2} \left(-\cos\varphi \sqrt{\quad} + (A-l\cos\varphi) \frac{1}{2} \frac{1}{\sqrt{\quad}} (2l-2A\cos\varphi-2B\sin\varphi) \right) \right\}$$

paritatis

$\frac{17}{25}$
 $\frac{160}{120}$
 $\frac{32}{2}$

$\frac{128}{170}$
 $\frac{298}{149}$
 $\frac{148}{196}$
 $\frac{244}{161}$
 $\frac{121}{121}$

$$C_2 = \frac{1}{8} \left(\frac{1}{\pi^2} - \frac{1}{\pi^2} \right)$$

$$\frac{8c_4}{2\pi^2 k} = -\frac{1}{2} \left(\frac{1}{\pi^2} + \frac{1}{\pi^2} \right) + \frac{1}{\pi^2}$$

$$-\frac{3}{8} \frac{1}{\pi^2} - \frac{5}{8} \frac{1}{\pi^2} + \frac{1}{\pi^2}$$

59.89

295

$\frac{54726}{87679}$
 $\frac{72047}{87679}$
 $\frac{84368}{87679}$

$$\left(\frac{5}{8} \frac{1}{\pi^2} + \frac{3}{8} \frac{1}{\pi^2} \right)$$

$\frac{148}{96}$
 $\frac{144}{72}$
 $\frac{72}{66}$
 $\frac{1159}{580}$

$\frac{57268}{87679}$
 $\frac{69689}{87679}$
 $\frac{82010}{87679}$

$\frac{60,12}{59,17}$
 $\frac{50}{60}$
 $\frac{58}{116}$

$\frac{58771}{87679}$
 $\frac{71092}{87679}$
 $\frac{83413}{87679}$

$\frac{117}{205}$
 $\frac{560}{150}$
 $\frac{425}{565}$
 $\frac{990}{490}$

$\frac{62896}{87679}$
 $\frac{75211}{87679}$

$\frac{62727}{87679}$
 $\frac{75058}{87679}$

$\frac{563}{424}$
 $\frac{947}{494}$

$\frac{574}{682}$
 $\frac{1196}{598}$

$\frac{455}{602}$
 $\frac{1055}{527}$

$\frac{65677}{87679}$
 $\frac{77958}{87679}$

$\frac{125}{166}$
 $\frac{291}{146}$

$\frac{156}{182}$
 $\frac{119}{216}$

$\frac{552}{967}$
 $\frac{73}{86499}$

$\frac{61902}{21002}$
 $\frac{46}{68}$
 $\frac{198}{58}$

$\frac{456}{606}$
 $\frac{62}{78217}$

$\frac{65896}{87679}$
 $\frac{78217}{87679}$

$\frac{282}{2732}$
 $\frac{242}{2549}$

$\frac{282}{2732}$
 $\frac{242}{2549}$

$\frac{282}{2732}$
 $\frac{242}{2549}$

$\frac{624}{472}$
 $\frac{96}{548}$

unstable line

unstable line

390

754

$$\begin{array}{r} 59106 \\ 87727 \\ \hline 71369 \\ 87727 \\ \hline 83632 \end{array}$$

$$\begin{array}{r} 577,2 \\ 686,0 \\ \hline 672 \end{array}$$

396

$$\begin{array}{r} 124,6 \\ 1787 \\ \hline 2133 \end{array}$$

$$\begin{array}{r} 59770 \\ 87727 \\ \hline 72022 \\ 87727 \\ \hline 84296 \end{array}$$

$$\begin{array}{r} 156,7 \\ 525,2 \\ 646,0 \\ \hline 11212 \\ 670,6 \end{array}$$

$$\begin{array}{r} 148 \\ 1966 \\ \hline 2446 \\ 172,2 \\ 148 \\ \hline 2202 \\ 160,2 \\ \hline 10712 \\ 535,6 \end{array}$$

$$\begin{array}{r} 142 \\ 188 \\ \hline 330 \\ 160 \end{array}$$

$$\begin{array}{r} 0,00000676041 \\ 730041 \\ \hline 0,0000140618 \\ 1772 \\ \hline 0,000001758 \end{array}$$

14.

$$\begin{array}{r} 2,92450 \\ 870350 \end{array}$$

$$\begin{array}{r} 0,14612-8 \\ 8,70350 \\ \hline 84963 \end{array}$$

$$\begin{array}{r} 21/6212/2957 \\ 42 \\ 201 \\ 189 \\ 120 \\ 105 \\ 150 \end{array}$$

$$\begin{array}{r} 191 \\ 820 \\ \hline 181 \\ 601 \end{array}$$

$$\begin{array}{r} 218141 \\ 87618 \\ \hline 96329 \end{array}$$

$$\begin{array}{r} 264 \\ 885 \\ \hline 9655 \\ 024 \end{array}$$

414,1

$$\begin{array}{r} 61711 \\ 87727 \\ \hline 73974 \end{array}$$

$$\begin{array}{r} 12740100004056246 \\ 1645-12768975 \\ \hline 2971-0,0000019273 \\ 1486-0,0000003748 \end{array}$$

$$\begin{array}{r} 154 \\ 417,5 \end{array}$$

$$\begin{array}{r} 62006 \\ 87727 \\ \hline 74329 \end{array}$$

$$\begin{array}{r} 572 \\ 482 \end{array}$$

$$\begin{array}{r} 441,1 \\ 585 \\ \hline 1026 \end{array}$$

$$\begin{array}{r} 64054 \\ 87727 \\ \hline 76717 \end{array}$$

$$\begin{array}{r} 0,0000020281 \\ 17725 \\ \hline 00000002556 \\ 40756 \\ 42058 \\ \hline 82814 \end{array}$$

$$\begin{array}{r} 0,000000206261 \\ 17725 \\ \hline 0,00000002901 \\ 0,46255 \\ 42058 \\ \hline 88313 \end{array}$$

$$\begin{array}{r} 1257/3844/3058 \\ 2771 \\ \hline 07300 \\ 6285 \\ \hline 10150 \end{array}$$

$$\begin{array}{r} 84 \\ 26 \\ \hline 110 \end{array}$$

$$- 2l(a - l \cos \varphi) \cos \varphi -$$

$$2l(a - l \cos \varphi) \sin \varphi - 2l(l - l \sin \varphi) \cos \varphi$$

$$2l(a \sin \varphi - l \cos \varphi)$$

$$(\varphi - \frac{\varphi^3}{6})(1 - \frac{\varphi^2}{2})$$

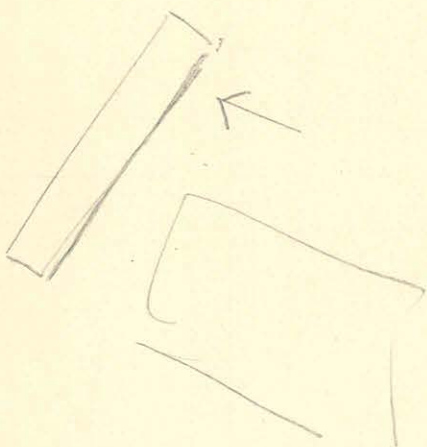
$$\frac{1}{0} + \frac{1}{2} = \frac{4}{0}$$

102

714

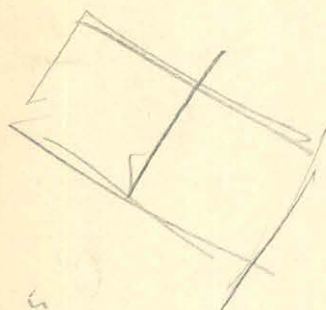
486

$$\begin{array}{r} 1,42110 \\ 28979 \\ 57243 \\ \hline 2,28432 \\ 2,22274 \\ \hline 2,28158 \\ 2,06158 \\ \hline 0,383596 \end{array}$$



$$\begin{array}{r} 44111A \\ 151757 \\ \hline 855156 \\ 222176 \\ \hline 338925 \end{array}$$

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$$\begin{array}{r} 2352150 \\ \hline 855156 \\ 222176 \\ \hline 127418 \end{array}$$

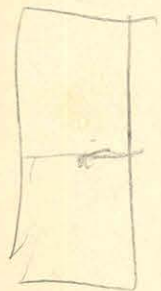


$$\begin{array}{r} 0,203528 \\ 1,628224 \\ \hline 0,308623 - 1 \end{array}$$

$$\begin{array}{r} 1,053276 \\ 1,1744653 \\ \hline 1,466126 \\ 1,1172914 \\ 1,651278 \\ \hline 0,761958 - 4 \end{array}$$

$$\begin{array}{r} 59854610 \\ 0,745865 \\ \hline 1,44172 \end{array}$$

$$\begin{array}{r} 0,901891 - 4 \\ 8,706923 \\ 6,805026 \\ \hline 3,08526 \end{array}$$



$$\begin{array}{r} 5092140 \\ 200704 \\ \hline 308526 \end{array}$$

$$\begin{array}{r} 6,383011 \\ 1,90581 \\ 6,192420 \\ \hline 1,90581 \\ 5,280080 \\ \hline 2,1347828 \\ 2,1932252 \\ \hline 2,1347828 \end{array}$$

$$\begin{array}{r} 6,791861 \\ 2,1489205 \\ \hline 3,002556 \end{array}$$

$$\begin{array}{r} 0,138570 - 3 \\ 6,081012 \\ 3,579582 \\ \hline 0,00057804 \\ 0,00079781 \\ 0,0018755 \\ \hline 0,197 \end{array}$$

$$\begin{array}{r} 2,404428 \\ 6,87278 \\ 1,171150 \\ \hline 6,004808 \\ 2,922252 \\ \hline 3,302556 \end{array}$$

$$\begin{array}{r} 687278 \\ 5,837133 \\ \hline 2,047828 \\ 0,1489205 \end{array}$$

$$\pi = m g \quad p = m g \quad p' = m' g$$

$$P = M g \quad P' = M' g$$

$$OA = K \quad OB = K'$$

$$(P+p)MM' \cos(FM') + (P+p')\Delta\Delta' \cos(F\Delta\Delta') \\ + \pi SS' \cos FSS' = 0$$

$$pN' = kw \quad hN' = k'w \quad SS' = sw$$

$$FM' = \frac{\pi}{2} + \pi - \alpha = n$$

$$\angle \beta \beta' = \pi - \beta + \alpha - \frac{\pi}{2}$$

$$\mathcal{I}\mathcal{I}' = \pi + u - \frac{\pi}{2}$$

$$\cos \angle M' = -\sin(\alpha + u)$$

$$\cos \text{Fuss}' = \sin(\beta + u)$$

$$\cos \angle B = \frac{1}{2} \sin u$$

$$-(P+p)k \sin(\alpha+u) + (P'+p')k' \sin(\beta-u) - \pi s \sin u = 0.$$

$$p = \frac{(P+p')k' \sin(\beta-u) - \pi \delta \sin u - Pk \sin(\alpha+u)}{k \sin(\alpha+u)}$$

tehát harigja által mindig helyes mértékű

Ita a onizjok meztelene sincaenly ahtors.

$$-p k \sin(2 + n_0) + p' k' \sin(\beta - n_0) - \pi A \sin n_0 = 0$$

o ha wstąpił na kibelnie no czymkolwiek czymkolwiek.

I became (No.)

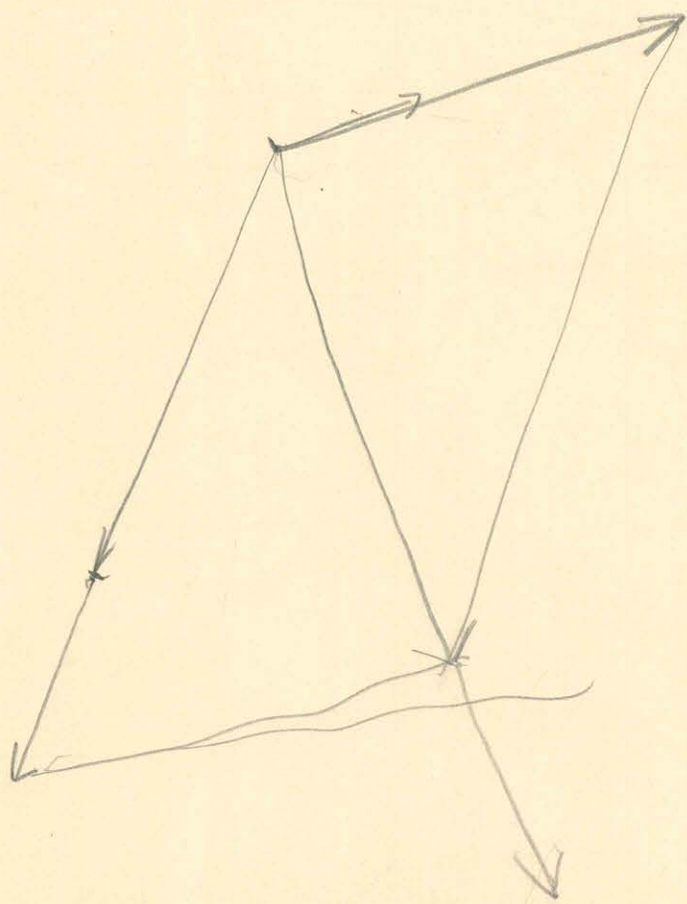
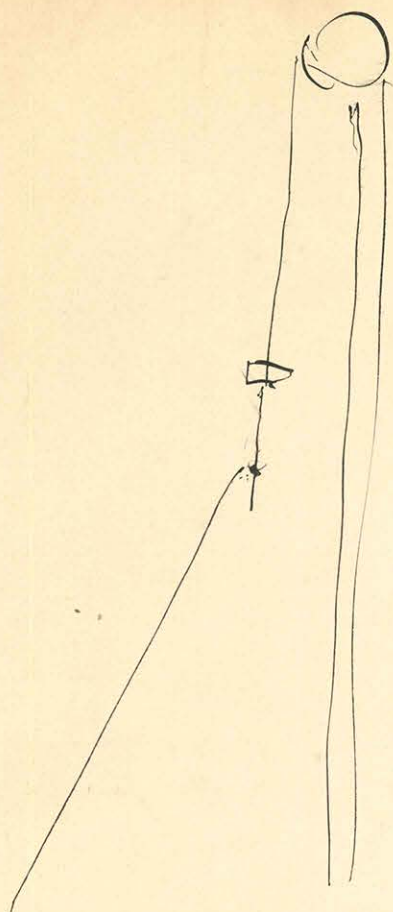
also examined.

$$-P_k \sin(\alpha + u_0) + P'_k \sin(\beta + u_0) \cancel{\sin(\alpha + u_0)} = 0 \quad II$$

1) ha $\alpha + \mu = \pi$

$$P K \sin(\alpha + u_0) = P' K' \sin(\pi - \alpha + u_0)$$
$$= P' K' \sin(\alpha + u_0)$$

$$Pk = P'k'$$



$$C_1 = -23 \ 159 \ 665 \ 210$$

$$A_1 =$$

$$4 \ 6 \ 8 \ 9 \ 4 \ 0 \ 3 \ 4 \ 1 \ 2 \ 2 \ 5 \ 0 \ 1$$

$$1 \ 1 \ 2 \ 3 \ 6 \ 6 \ 9 \ 4 \ 6 \ 0 \ 4 \ 9 \ 1 \ 2 \ 2 \ 5 \ 0 \ 1$$

$$1 \ 1 \ 2 \ 3 \ 6 \ 6 \ 9 \ 4 \ 6 \ 0 \ 4 \ 9 \ 1 \ 2 \ 2 \ 5 \ 0 \ 1$$

$$2 \ 3 \ 1 \ 5 \ 9 \ 6 \ 6 \ 5 \ 2 \ 1 \ 0$$

$$A_2 = 9 \ 4 \ 8 \ 0 \ 0 \ 2 \ 1$$

$$A_1 = 1 \ 3 \ 6 \ 7 \ 9 \ 8 \ 5 \ 9 \ 4 \ 1 \ 1 \ 6$$

$$A_2 - A_1 = - \ 4 \ 1 \ 9 \ 9 \ 8 \ 3 \ 8 \ 4 \ 1 \ 1 \ 6$$

$$C_2 = - \ 6 \ 5 \ 3 \ 8 \ 6 \ 9 \ 6 \ 9 \ 7 \ 4$$

$$- C_1 = + \ 1 \ 1 \ 2 \ 3 \ 6 \ 6 \ 9 \ 4 \ 6 \ 0 \ 4 \ 9 \ 1 \ 2 \ 3$$

$$C_2 - C_1 = + \ 4 \ 6 \ 9 \ 7 \ 9 \ 9 \ 7 \ 6 \ 3 \ 0 \ 9 \ 1 \ 2 \ 3$$

$$a = - \ 1 \ 1 \ 1 \ 8 \ 6 \ 1 \ 3 \ 9$$

$$b = - (|C_1| + |A_1|)$$

$$2 \ 3 \ 1 \ 5 \ 9 \ 6 \ 6 \ 5 \ 2 \ 1 \ 0$$

$$3 \ 1 \ 5 \ 3 \ 9 \ 5 \ 5 \ 3 \ 8 \ 1 \ 9 \ 4 \ 1 \ 9$$

$$2 \ 6 \ 3 \ 1 \ 5 \ 3 \ 9 \ 5 \ 5 \ 3 \ 8 \ 1 \ 9 \ 4 \ 1 \ 9$$

$$2 \ 0 \ 0 \ 0 \ 5 \ 7 \ 0 \ 9 \ 8 \ 2 \ 8 \ 0 \ 5 \ 8 \ 1$$

$$B_1$$

$$- \ 2 \ 7 \ 5 \ 4 \ 5 \ 9 \ 5 \ 2$$

$$7 \ 7 \ 8 \ 6 \ 9 \ 2 \ 9 \ 4 \ 8 \ 5 \ 7 \ 2 \ 2 \ 8 \ 3 \ 3 \ 6 \ 0 \ 0$$

$$3 \ 3 \ 6 \ 2 \ 2 \ 8 \ 0 \ 6 \ 8 \ 0$$

$$7 \ 7 \ 8 \ 6 \ 9 \ 2 \ 9 \ 4 \ 8 \ 5 \ 7 \ 2 \ 2 \ 8 \ 3 \ 3 \ 6 \ 0 \ 0$$

$$- \ 2 \ 3 \ 1 \ 5 \ 9 \ 6 \ 6 \ 5 \ 2 \ 1 \ 0$$

$$- \ 4 \ 7 \ 7 \ 5 \ 2 \ 8 \ 3 \ 6 \ 6 \ 7 \ 3 \ 3 \ 6 \ 5 \ 9$$

$$\begin{cases} 3a + 9b = -22000 \\ 9a + 45b = -61500 \\ 9a + 27b = -72000 \end{cases}$$

$$3a = -22000 - 36000 = -58000$$

$$a = -20000$$

$$18b = +65500$$

$$b = 3638$$

Aether (hyperbola)

X (mm)

Y (mm)

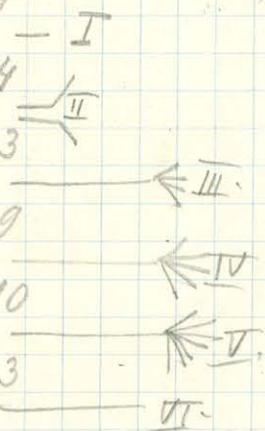
X

Y

4	26	186	120
14	26	187	126
24	27	188	133
34	28 <	189	141
44	28 >	190	150
54	29	191	160
64	30	192	172
74	31	193	186
84	32	194	203
94	33	195	204
104	35	204	∞
114	37		
124	40		
134	43		
144	47		
149	50		
154	54		
157	56		
161	59		
164	63		
166	66		
169	70		
171	73		
174	79		
175	81		
177	86		
178	88		
180	94		
181	98		
183	105		
184	110		
185	115		

Aether

<u>Aether</u>	10^{-5} $\frac{93.246}{83}$	γ	(2 γ) 10^{-1} (mm)
200 03.9°	46.6	130	26
190 19.9	49.1	132	26
180 29.9	51.8	135	27
170 39.9	54.8	138	28 <
160 49.9	58.3	141	28 >
150 59.9	62.2	145	29
140 69.9	66.6	150	30
130 79.9	71.7	155	31
120 89.9	77.7	161	32
110 99.9	84.8	168	33
100 109.9	93.2	176	35
90 119.9	103.6	187	37
80 129.9	116.6	200	40
70 139.9	133.2	216	43
60 149.9	155.4	238	47
50 159.9	186.5	270	54
40 169.9	233.1	316	63
30 179.9	310.8	394	79
20 189.9	466.2	549	110
10 199.9	932.5	1016	203
0 203.9	∞	∞	



+ 83

	$(240) \lambda$	$\frac{+83}{(\gamma-83)}$	γ	$10(2\gamma)$ (mm)
I 55 148.9	169.5	253	50	115
II 47 156.9	198.4	281	56	120
44 160.9	211.9	295	59	126
III 38 165.9	245.4	328	66	133
35 168.9	266.4	349	70	141
33 170.9	282.5	366	73	150
29 174.9	321.5	405	81	160
27 176.9	345.3	428	86	172
26 177.9	358.6	442	88	186
27 179.9	388.6	472	94	
23 180.9	405.4	488	98	
21 182.9	444.0	527	105	

$$\begin{aligned} 3.36228068 \cdot 2820 \cdot a + 9.480 b &= -23,159,665 \\ 9480 \cdot a + 45.996 b &= -6,538,697 \\ -31.874 a + 77,869,294 \cdot 1848 & \end{aligned}$$

$$\begin{aligned} A_1 a + B_1 b &= C_1 \\ A_2 a + B_2 b &= C_2 \\ 10^4 A_1 a + 10^4 B_1 b &= 10^4 C_1 \end{aligned}$$

$$10^5 A_1 a + 10^9 B_2 b = 10^4 C_1$$

$$+ 14,1221 = + 71,330,597 \cdot 1848$$

$$b = +5053$$

$$a = -25,200$$

690.

$$\begin{aligned} -4,25200 + 2,5053 &= -90,25200 + 50,5050 \\ -100,800 & \\ 101,00 & \\ -90,700 & \end{aligned}$$

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$$\begin{aligned} 2 \cdot a + 9 \cdot b &= -6.500 \\ 9 \cdot a + 4 \cdot b &= -23,200 \\ 00528 \pm & \\ -a &= 9300 \end{aligned}$$

Ms 5106/20-21. Eötvös L. teljes jegyzetei

2 kötetes bor.

MTA AKADEMIA
KÉZIRATI ÉRTÉKELŐ NAPLÓ
1922. ÉV 17. SZ.

M 5106 / 20

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TUDOMÁNYOS AKADEMIA
KÖNYVTÁRA

3

Olomheunges függőleges állása

Majnes nékhül:

247,9		
279,1	248,40	263,75
248,9	278,55	263,73
278,0	249,38	263,69
249,81-		

I állás $\varphi = 0^\circ + R$

272,7		
255,0	272,40	263,70
272,1	255,15	263,63
255,3	271,80	263,55
271,5		

II állás $\varphi = 90^\circ + R$

269,3		
258,5	269,15	263,83
269,0	258,70	263,85
258,9	268,88	263,89
268,75		

III állás $\varphi = 180^\circ + R$

267,1		
269,05	267,05	263,58
267,0	260,18	263,59
260,3	266,85	263,58
266,7		

IV állás $\varphi = 270^\circ + R$

269,9		
266,0	269,95	263,48
261,0	265,90	263,45
265,8	261,10	263,45
261,2		

I állás $\varphi = 0^\circ + R$

265,4		
261,95	265,35	263,65
265,3	261,98	263,64
262,0	265,23	263,62
265,15		

Majnes nékhül:

262,4		
264,9	262,45	263,68
262,5	264,85	263,68
264,8	262,55	263,68
262,6		

Wesen:

263,8
 263,4 263,8 263,60
 263,8 263,4 263,60
 263,4 263,8 263,60
 263,8

I allas $\varphi = 0^\circ - R$

263,2
 263,4 263,7 263,55
 263,7 263,45 263,58
 263,5 263,70 263,60
 263,7

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 TUDOMÁSIÓS AKADÉMIA
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II allas $\varphi = 90^\circ - R$

264,05
 262,80 264,03 263,42
 264,00 262,85 263,43
 262,90 264,00 263,41
 264,00

III allas $\varphi = 180^\circ - R$

264,2
 263,05 264,18 263,62
 264,15 263,05 263,60
 263,05 264,13 263,59
 264,1

IV allas $\varphi = 270^\circ - R$

264,4
 263,2 264,4 263,80
 264,4 263,2 263,80
 263,2 264,35 263,78
 264,3

I allas $\varphi = 0^\circ - R$

263,9
 263,0 263,9 263,60
 263,9 263,0 263,60
 262,0 263,88 263,59
 263,85

Magyes nélkül

263,9
 263,3 263,88 263,59
 263,85 263,00 263,58
 263,0 263,83 263,57
 263,8

u-korI allas

$l' = 0$

264,9			
267,9	264,9	266,40	} 266,40
264,9	267,9	266,40	
267,9			

$l' = +3,0$

272,3			
228,8	271,80	250,30	} 250,2
271,3	229,10	250,20	
229,4	270,85	250,13	
270,4			

$V = -16,2$

$l' = -3,0$

206,3			
242,0	205,65	273,83	} 273,8
205,0	242,50	273,75	
242,0	204,40	273,70	
202,8			

$V = +7,4$

$l' = 3,0 \sim$

242,5			
282,4	242,80	263,10	} 263,1
242,1	283,15	263,13	
282,9	243,45	263,18	
242,8			

$V = -3,3$

6h. 45

$l' = 0$

262,6			
269,2	262,65	266,43	} 266,4
262,7	269,15	266,43	
269,1			

$l' = +3,0$

262,1			
227,8	262,85	250,33	} 250,3
262,6	227,95	250,28	
228,1	262,30	250,20	
262,0			

$V = -16,1$

$l' = -3,0$

287,1			
261,1	286,75	273,93	} 273,9
286,4	261,30	273,85	
261,5	286,15	273,83	
285,9			

$V = +7,5$

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$\Delta l' = 0$

$\Delta l' = 0$

$\lambda = 3.0 \text{ m}$

268.0

258.2

268.0

263.10

268.0

258.25

263.13

258.2

267.95

263.15

267.9

} 263.1

$V =$

$\Delta i = -0.010$

I állás $\alpha = 0^\circ - R$

260,45		
260,05	260,45	260,25
260,45	260,05	260,25
260,05	260,45	260,25
260,45		

üresen

260,05		
260,40	260,08	260,24
260,10	260,40	260,25
260,40	260,10	260,25
260,10		

A feljegyzésben nincs semmi, értékelendő

üresen

0,4 C. B. S.

245,0		
245,3	245,60	263,45
246,2	240,75	263,48
240,2	246,75	263,48
247,3	249,65	263,48
249,1		

+ R jelentés per centum
~~del~~
~~del~~
~~del~~

I állás $\alpha = 0^\circ \rightarrow R$

273,8		
253,6	270,45	263,53
270,1	253,85	263,48
254,1	272,78	263,44
272,45	254,50	263,48
254,9		

II állás $\alpha = 90^\circ \rightarrow R$

268,9		
257,9	268,75	263,33
268,6	258,05	263,33
258,2	268,40	263,30
268,2	258,40	263,30
258,6		

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III állás $\alpha = 180^\circ \rightarrow R$

266,0		
261,1	265,95	263,53
265,9	261,15	263,53
261,2	265,80	263,50
265,7	261,30	263,50
261,4		

IV allas $\alpha = 270^\circ + R$

265,9		
261,7	265,80	263,75
265,7	261,75	263,73
261,8	265,65	263,73
265,6	261,85	263,73
261,9		

Tallas $\alpha = 0 + R$

262,25		
264,75	262,28	263,52
262,50	264,73	263,52
264,70	262,38	263,54
262,45	264,63	263,54
264,55		

Uresen

264,05		
262,00	264,03	263,52
264,00	262,00	263,50
262,00	264,00	263,50
264,00	262,02	263,52
262,05		

Iallas $\alpha = 0 + R$

262,2		
262,8	262,2	262,50
262,2	262,8	262,50
262,8	262,22	262,52
262,25		

II allas $\alpha = 90^\circ + R$

263,05		
264,25	263,05	263,65
262,05	264,20	263,63
264,20	262,08	263,64
262,10		

III allas $\alpha = 180^\circ + R$

263,2		
262,8	262,20	262,50
262,2	262,80	262,50
262,8	262,10	262,45
262,0	262,90	262,45
264,0		

1915. január 2-án

Úresen:

245,2		
275,0	245,65	260,33
246,1	274,60	260,35
274,2	246,53	260,37
246,95	273,75	260,35
273,20	247,33	260,32
247,70		

I. állás $\alpha = 0^\circ$ + R

254,0		
266,6	254,15	260,38
254,3	266,40	260,35
266,2	254,50	260,35
254,7	266,05	260,38
265,9	254,85	260,38
255,0		

II. állás $\alpha = 90^\circ$ + R

264,2		
256,1	264,1	260,10
264,0	256,2	260,10
256,2	263,95	260,13
263,9	256,50	260,20
256,7	263,80	260,25
263,7		

III. állás $\alpha = 180^\circ$ + R

257,9		
262,9	257,95	260,43
258,0	262,80	260,40
262,7	258,05	260,38
258,1	262,65	260,38
262,6	258,15	260,38
258,2		

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IV. állás $\alpha = 270^\circ$ + R

259,0		
262,1	259,03	260,57
259,05	262,05	260,55
262,00	259,08	260,54
259,10	261,98	260,54
261,95	259,13	260,54
259,15		

Tallas $\alpha = 0$ + R

259,6		
261,1	259,60	260,35
259,6	261,10	260,35
261,1	259,63	260,37
259,65	261,08	260,37
261,05		

Uresen:

259,85		
260,90	259,85	260,38
259,85	260,90	260,38
260,90	259,88	260,39
259,90	260,90	260,40
260,90		

Tallas $i = 0^\circ$ - R

260,7		
260,0	260,7	260,35
260,7	260,0	260,35
260,0	260,7	260,35
260,7		

II Tallas $i = 90^\circ$ - R

260,05		
260,95	260,05	260,50
260,05	260,95	260,50
260,95	260,05	260,50
260,05		

III Tallas $i = 180^\circ$ - R

260,7		
260,05	260,68	260,37
260,65	260,05	260,35
260,05	260,63	260,34
260,60		

IV Tallas $i = 270^\circ$ - R

259,90		
260,35	259,93	260,14
259,95	260,35	260,15
260,35	259,95	260,15
259,95		

blom rúd

jan. 25.

II

$$i = 0$$

231,2
215,1 231,1 223,1
231,0 215,2 223,1
215,3 230,9 223,1
230,8

I. $\varphi = 0^\circ$ $i = 4,5^\circ \sim$

216,9
231,0 216,98 223,99
217,05 230,90 223,98
230,8 217,13 223,97
217,2

II. $\varphi = 45^\circ$ $i = 4,5^\circ \sim$

218,25
230,05 218,38 224,22
218,50 230,00 224,25
229,95 218,60 224,28
218,70

III. $\varphi = 90^\circ$ $i = 4,5^\circ \sim$

217,8
228,1 217,9 223,00
218,0 228,05 223,03
228,0 218,05 223,03
218,1

IV. $\varphi = 135^\circ$ $i = 4,5^\circ \sim$

217,8
227,4 217,88 222,64
217,95 227,33 222,64
227,25 218,00 222,63
218,05

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V. $\varphi = 180^\circ$ $i = 4,5^\circ \sim$

219,1
227,3 219,2 223,25
219,3 227,2 223,25
227,1 219,35 223,23
219,4

VII. $\varphi = 225^\circ$ $i' = 4,5 \text{ A } n$

226,3
 219,7 226,25 222,98
 226,2 219,75 222,98
 219,8 226,15 222,98
 226,1

VIII. $\varphi = 270^\circ$ $i' = 4,5 \text{ A } n$

225,2
 220,0 225,15 222,58
 225,1 220,00 222,55
 220,0 225,08 222,54
 225,05

VIII ¹ $\varphi = 315^\circ$ $i' = 4,5 \text{ A } n$

220,1
 225,2 220,18 222,69
 220,25 225,15 222,65
 225,10 220,10 222,70
 220,15

$i' = 0$

220,6
 225,4 220,65 223,03
 220,7 220,55 223,03
 225,5 220,75 223,03
 220,8

Platina henger . 1915 január hó 11-én

Magnes nélkül :

302,4		
225,9	301,2	263,55
300,0	227,05	263,53
228,2	298,90	263,55
297,8	229,28	263,54
250,55		

I . $\alpha = 0^\circ$ $\rightarrow R$

285,3		
242,65	284,65	263,65
284,00	243,33	263,67
244,00	283,55	263,67
282,7	244,6	263,65
245,2		

II állás $\alpha = 90^\circ$ $\rightarrow R$

276,1		
251,1	275,73	263,42
275,55	251,50	263,43
257,9	275,03	263,47
274,7		

III állás $\alpha = 180^\circ$ $\rightarrow R$

272,25		
255,20	272,03	263,62
271,80	255,55	263,68
255,90	271,50	263,70
271,20		

IV. állás $\alpha = 270^\circ$ $\rightarrow R$

262,0		
265,7	262,05	263,88
262,1	265,63	263,87
265,55	262,15	263,85
262,2		

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I állás $\alpha = 0^\circ$ $\rightarrow R$

262,5		
264,8	262,55	263,68
262,6	264,78	263,69
264,75	262,65	263,70
262,7		

Magnes nélkül

262,95		
264,40	262,98	263,69
262,00	264,25	263,68
264,20	262,00	263,65
262,00		

Platina henger vízszintesen (kelet-nyugat)

$$i = 0$$

252,4
251,2 252,25 251,78
252,3 251,23 251,77
252,25 252,25 251,75
252,20

I. állás $i = 4,5 \text{ m}$

257,75
253,6 257,83 252,72
251,9 253,60 252,75
253,6 257,93 252,77
257,95

II. állás $i = 4,5 \text{ m}$

252,05
255,7 252,08 253,89
252,1 255,65 253,88
255,6 252,18 253,89
252,25

III. állás $i = 4,5 \text{ m}$

248,9
254,15 248,95 251,55
249,0 254,08 251,54
254,0 249,03 251,52
249,05

IV. állás $i = 4,5 \text{ m}$

252,7
247,3 252,5 249,90
252,3 247,5 249,90
247,7 252,2 249,95
252,1

V. állás $i = 4,5 \text{ m}$

247,5
254,0 247,65 250,83
247,8 253,85 250,83
253,7 247,85 250,78
247,9

VI allas' $i = 4.5 A v$

253,15		
248,95	253,10	251,03
253,05	249,00	251,03
249,05	253,00	251,03
252,95		

VII. allas' $i = 4.5 A v$

249,1		
251,8	249,2	250,50
249,3	251,8	250,55
251,8	249,25	250,58
249,4		

VIII. allas' $i = 4.5 A v$

251,4		
250,0	251,5	250,75
251,6	250,05	250,83
250,1	251,65	250,83
251,7		

I allas' $i = 4.5 A v$

251,95		
254,30	252,03	253,17
252,10	254,40	253,25
254,50	252,20	252,05
252,00		

$i = 0$

251,7		
253,9	251,7	252,80
251,7	253,9	252,80
253,9	251,75	252,83
251,8		

1914 Okt. 10

3

I allan

$$\dot{c} = 0$$

287,9		
271,2	287,60	279,40
287,0	271,20	279,25
271,2	287,15	279,18
287,0	271,25	279,13
271,0	286,85	279,08
286,7	271,40	279,05
271,5		

$$\dot{c} = 4.5 \text{ } 12$$

287,9		
271,2	287,60	279,40
287,0	271,20	279,25
271,2	287,15	279,18
287,0	271,25	279,13
271,0	286,85	279,08
286,7	271,40	279,05
271,5		

273,1		
285,8	270,13	279,47
270,15	285,65	279,40
285,5	270,28	279,39
270,4	285,38	279,39
285,25		

$$\dot{c} = 0$$

270,5		
285,25	270,80	278,03
271,1	285,30	278,20
285,40	271,05	278,38
271,60	285,05	278,48
285,00	271,75	278,53
271,90		

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Tallas'

1914 Jan. 10 2

$$\dot{c} = 0$$

256,2		
285,7	256,65	271,88
257,1	285,50	271,30
285,0		

200,1		
244,0	299,65	271,83
299,2	244,45	271,83
244,9	298,70	271,80
298,2		

$$\dot{c} = 4,5 \text{ A}$$

241,95		
260,80	242,30	251,55
242,65	260,85	251,75
260,90	242,93	251,90
242,20		

$$\dot{c} = 3,0$$

256,9		
268,8	257,0	262,90
257,1	268,65	262,88
268,5	257,15	262,83
257,2		

$$\dot{c} = 0$$

283,7		
260,2	283,45	271,83
283,2	260,40	271,80
260,6	283,05	271,83
282,9		

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május 1-én Kisebtelek után Delubini

$$\dot{c} = 0$$

328,8		
214,0	327,9	270,95
327,0	214,9	270,95
215,8	326,1	270,95
325,2		

$$\dot{c} = 4,56.$$

178,2		
322,2	179,55	250,88
180,9	321,20	251,05
320,2	182,05	251,13
183,2		

Comptels Kien tunkte Balus A Jelen

I allas

$$i = 0$$

257,8		
272,0	257,88	264,94
257,95	271,95	264,95
271,90	258,08	264,99
258,20		

$$L = 4,5 \text{ H}$$

232,1		
270,8	232,53	251,67
232,95	270,38	251,72
269,95	233,28	251,62
233,60		

$$L = 0$$

295,2		
236,5	294,65	265,48
294,1	236,70	265,40
237,1	293,58	265,34
293,05		

238,7		
291,5	239,05	265,18
239,4		

II allas

$$L = 0$$

241,1		
289,2	241,35	265,28
241,6	288,73	265,17
288,25	241,85	265,05
242,10	287,85	264,98
287,45	242,45	264,95
242,80		

$$L = 4,5 \text{ H}$$

248,5		
294,1	248,85	271,48
249,2	293,75	271,48
293,4	249,55	271,48
249,9		

$$i = 0$$

239,0		
290,2	239,5	264,85
240,0	239,8	264,90
239,4	240,35	264,93
240,7		

III allari

$$i = 0$$

243,0		
245,2	243,0	264,10
242,7	245,55	264,13
245,9	242,40	264,15
242,1	246,05	264,08
246,2		

$$i = 4,5$$

256,25		
282,85	256,53	269,69
256,70	282,63	269,67
282,40	256,85	269,63
257,00	282,20	269,62
282,05		

$$i = 0$$

281,2		
246,8	280,0	263,90
280,8	247,00	263,92
247,25	280,55	263,90
280,0		

Cropwelli vörös kö A és B irányban.

III állás

$$i = 0$$

289,6		
274,05	289,45	281,75
289,20	274,12	281,72
274,20	289,20	281,70
289,10		

$$i = 4,5 \text{ m.}$$

294,8		
281,9	294,75	288,33
294,7	281,95	288,33
282,0	294,65	288,33
294,6		

$$i = 0$$

275,2		
288,25	275,50	281,93
275,70	288,23	281,97
288,10	276,30	282,20
276,90		

II állás

$$i = 0$$

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288,3		
276,1	288,2	282,75
288,1	276,2	282,15
276,2	288,05	282,18
288,0		

$$i = 4,5 \text{ m.}$$

271,25		
281,90	271,33	276,62
271,40	281,85	276,63
281,80	271,60	276,70
271,80		

$$i = 0$$

291,6		
273,2	291,43	282,32
291,25	273,35	282,28
273,50	291,13	282,32
291,00		

1914 Apr. 10

Kőnél kűt

III állás

$$i = 0$$

245,95		
249,00	246,03	247,52
246,10	249,00	247,55
249,0	246,13	247,57
246,15	248,98	247,57
248,95		

$$i = 4,5 \text{ A} \sim$$

264,75		
249,95	264,40	257,18
264,05	250,18	257,12
250,40	263,83	257,12
262,60	250,65	257,13
250,90		

$$i = 3,0 \text{ A} \sim$$

260,3		
243,9	260,10	252,00
259,9	244,10	252,00
244,3	259,58	251,94
259,25	244,63	251,94
244,95		

$$i = 0$$

240,3		
254,4	240,63	247,52
240,95	254,20	247,58
254,00	241,58	247,79
242,2	253,85	248,03
253,7		

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II állás

$$i = 0$$

249,2		
245,2	249,6	247,40
249,5	245,25	247,38
245,3	249,40	247,35
249,3	245,35	247,33
245,4		

$$l = 4.5 \text{ A } \sim$$

235,2		
245,0	235,35	240,18
235,5	244,85	240,18
244,7	235,70	240,20
235,9	244,50	240,20
244,3		

$$l = 3.0 \text{ A } \text{A}$$

234,1		
235,2	234,53	243,87
234,95	252,95	243,95
252,70	235,28	243,99
235,60	252,35	243,98
252,00		

$$\text{Upsilon} : l = 0$$

239,95		
254,70	240,13	247,42
240,30	254,38	247,34
254,05	240,60	247,33
240,90	253,88	247,39
253,70		

$$\text{Tallas}'$$

$$l = 0$$

250,6		
242,7	250,38	246,54
250,15	242,85	246,50
242,00	250,08	246,54
250,00	242,10	246,55
242,20		

$$l = 4.5 \text{ A } \sim$$

240,25		
244,95	240,33	242,64
240,40	244,83	242,62
244,70	240,55	242,63
240,70	244,70	242,70
244,70		

$$l = 3.0 \text{ A}$$

248,2		
242,2	248,08	248,14
247,95	241,90	244,93
241,6	247,85	244,73
247,75	241,78	244,77
241,95		

$$L = 0$$

242,6		
250,95	242,75	246,85
242,90	250,83	246,84
250,70	242,98	246,84
243,05	250,48	246,77
250,25		

Crepedli ^{Kéknyír-he} Novel A alut B esikton

III allas

$$L = 0$$

249,10		
303,30	240,65	278,98
241,20	302,83	272,04
302,35	241,65	272,00
242,10	301,85	271,98
301,35		

$$L = 4'5 \text{ H } \sim$$

246,2		
305,1	246,70	275,90
247,2	304,65	275,93
304,2	247,63	275,92
248,05		

$$L = 3'0 \text{ H } \sim$$

299,1		
249,25	298,65	273,95
298,20	249,63	273,93
250,00	297,80	273,90
297,40		

$$L = 0$$

296,05		
248,25	295,63	271,95
295,20	249,03	272,13
249,80	294,90	272,35
294,60		

Arcton reikarilaja leuve

$C=0$

254,05		
287,55	254,38	270,97
254,70	287,28	270,99
287,00	254,90	270,95
255,10		

$C=45^{\circ} A$

262,5		
287,2	262,75	275,48
262,95	287,05	275,50
286,90	264,13	275,52
264,20		

$C=3^{\circ} 0' A$

260,4		
285,8	260,60	273,20
260,8	285,50	273,15
285,2		

II allas'

$C=0$

260,6		
279,75	260,55	270,15
260,50	279,43	269,97
279,10	260,55	269,83
260,60		

$C=45^{\circ} A$

285,3		
282,0	285,18	283,59
285,05	281,95	283,50
281,90		

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$C=3^{\circ} 0'$

282,2		
268,4	283,08	275,74
282,95	268,28	275,72
268,25		

Iallas

$$l' = 0$$

244,9		
255,3	244,95	250,13
245,0	257,25	250,13
257,2	245,03	250,12
245,05		

$$l' = +3,0 \text{ A}$$

103,6		
236,9	104,15	170,53
104,7	255,75	170,23
254,6	105,45	170,03
106,2	233,75	169,98
252,9		

$$l' = -3,0 \text{ A}$$

154,3		
195,3	154,20	174,75
154,1	194,85	174,48
194,4	154,10	174,25
154,1	194,00	174,05
192,6		

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IIallas

$$l' = 0$$

234,2		
265,8	254,5	250,15
234,8	265,55	250,18
265,5	235,00	250,15
235,2		

$$l' = +3,0 \text{ A}$$

313,8		
349,0	314,00	33
314,2	348,85	
348,7	314,70	
315,2	348,70	
348,7		
315,8		

27

Uth. 12-13

Am.

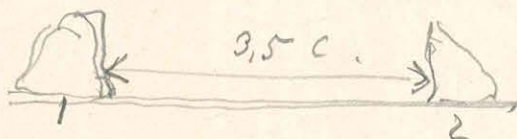
Kékesszék Crepidel Kö

Két Darabban irányít két végén

A alul B csukhon.

+ csukhi belső
- csukhi kívüli.

1)



I állás $i = 0'$

263.8

254.1 262.95 248.53

262.1 254.45 248.28

254.8 261.55 248.18

261.0

$i = +4.5$

233.6

162.0 253.2 194.60

252.6 165.8 199.20

169.6 252.95 201.28

253.3

$i = -4.5$

221.1

252.2 221.15 226.68

221.2 231.60 226.40

251.0 222.0 226.50

222.8

$i = 0$

285.8

225.8 284.40 255.25

283.6 226.85 255.23

227.9 282.40 255.15

281.2

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II állás

$i = 0$

241.5

224.1 268.30 246.20

265.1 225.65 244.38

225.2 263.90 243.55

262.7

$$i = +4.5 \text{ N}$$

221.8		
363.4	223.95	293.68
226.1	361.55	293.83
259.7	228.55	294.13
221.6		

$$i = -4.5 \text{ A}$$

403.1		
239.0	394.90	318.45
392.7	242.95	317.83
246.9	387.85	317.38
383.0		

$$i = 0$$

224.7		
253.7	224.9	239.30
225.1	253.15	239.13
252.6	225.6	239.10
226.1		

III allas

$$i = 0$$

229.8		
248.5	229.90	239.20
230.0	248.20	239.10
247.9	230.30	239.10
230.6		

$$i = +4.5 \text{ R}$$


139.9		
220.6	143.45	187.03
147.0	229.50	188.25
228.4	149.45	188.93
157.9		

$$i = -4.5 \text{ A}$$

226.4		
158.9	224.65	191.78
222.9	161.00	191.95
162.1	221.00	192.05
219.1		

$$i = 0$$

258,9		
218,1	258,0	238,05
257,1	218,9	238,00
219,7	256,5	238,10
255,9		

2) by line 2 days to  A line to the end

1914, Oct. 12.

I allis

$$i = 0$$

224,5		
231,9	224,6	228,25
224,7	231,85	228,28
231,8	224,80	228,30
224,9		

$$i = +4,5 A$$

222,2		
180,5	222,4	201,45
222,6	182,2	202,40
183,9	222,2	203,05
221,8	184,35	203,08
184,8		

$$i = -4,5 A$$

190,4		
225,1	190,6	204,85
190,8	224,5	207,65
223,9	191,25	207,58
191,7		

$$i = 0$$

236,1		
222,0	236,0	229,0
235,9	222,1	229,0
222,2	235,8	229,0
235,7		

II. allás

$$l' = 0$$

222,3		
225,1	222,3	228,70
222,3	225,0	228,65-
224,9	222,4	228,65-
222,5-		

$$l' = +4,5 \text{ A}$$

~~226,8~~

226,7		
209,2	226,95	218,08
227,2	209,95-	218,58
210,7	227,45-	219,08
227,7	211,10	219,40
211,5		

$$l' = -4,5 \text{ A}$$

265,6		
218,1	264,50	241,30
263,4	218,50	240,95
218,9		

$$l' = 0$$

254,1		
202,7	253,6	228,15-
253,1	203,15-	228,13
203,6	252,6	228,10
252,1		

III. allás

$$l' = 0$$

205,1		
250,2	205,5	227,85-
205,9	249,80	227,85-
249,4		

$$l' = +4,5$$

258,1		
212,0	258,70	235,35-
259,3	213,85	236,58
215,7	259,35	237,53
259,4		

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1914. okl. 13.

2

$$L' = -4,5$$

279,7		
224,0	279,05	251,53
278,4	225,10	251,75
226,2	277,55	251,88
276,7		

$$L' = 0$$

182,2		
272,1	183,05	227,58
182,9	271,30	227,60
270,5	184,60	227,55
185,0		

2) Az előbbi Kérdések kö

B1 B2

főtitulról névve: B1 B2

Tallás

$$L' = 0$$

342,9		
125,1	340,95	233,03
339,0	124,00	233,00
128,9	337,05	232,95
335,1		

$$L' = +4,5 \text{ K}$$

318,6		
136,4	316,10	226,25
312,6	138,55	226,08
140,7	311,35	226,03
309,1		

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$$L' = -4,5 \text{ K}$$

305,2		
162,6	303,05	232,83
300,9	164,35	232,63
166,1	299,05	232,58
297,2		

$$L' = 0$$

169,1		
295,1	170,15	232,63
171,2	294,00	232,65
292,9	172,30	232,60
170,4		

II allas

$$i = 0$$

179,0		
284,1	179,85	231,98
180,7	283,1	231,90
282,1	181,5	231,80
182,0		

$$i = +4,5 A$$

245,9		
197,8	245,40	221,60
244,9	198,50	221,70
199,2	244,40	221,80
240,9		

$$i = -4,5 A$$

243,9		
202,8	242,70	222,75
241,5	202,95	222,23
200,1	240,70	221,90
239,9		

$$i = 0$$

220,2		
240,1	223,45	231,78
220,7	240,0	231,85
209,9	220,8	231,85
220,9		

III allas

$$i = 0$$

205,1		
224,9	204,0	229,45
204,9	224,95	229,95
225,0	204,80	229,90
204,7		

$$i = +4,5 A$$

240,7		
229,7	241,20	235,45
241,7	225,65	233,68
220,6	241,80	231,70
241,9	222,25	232,08
222,9	241,90	232,40
241,9	223,50	233,50
224,1		

$$i' = -4,5 \text{ A}$$

250,3		
244,8	250,70	247,75
257,1	245,15	248,13
245,5	257,15	248,33
257,2		

$$i' = 0$$

248,2		
210,7	247,90	229,30
247,6	210,95	229,28
211,2	247,25	229,23
246,9		

4)

Königsbül

Tallas

$$i' = 0$$

226,3		
263,9	226,75	250,33
227,2	263,40	250,30
262,9	237,70	250,30
228,2		

$$i' = +4,5 \text{ A}$$

255,1		
226,6	254,55	240,58
257,0	227,10	240,55
227,6	253,50	240,55
255,0		

$$i' = -4,5 \text{ A}$$

249,0		
227,1	248,6	242,85
248,2	227,2	242,70
227,2	248,0	242,65
247,8		

$$i' = 0$$

249,2		
260,1	240,60	250,25
241,0	259,80	250,40
259,5	241,20	250,40
241,6		

II. allás

$$i = 0$$

256,0		
245,1	256,10	250,60
255,9	245,30	250,60
245,5	255,75	250,63
255,6		

$$i = +4,5$$

210,6		
244,9	211,40	228,15
212,2	244,35	228,28
242,8	212,95	228,38
212,7		

$$i = -4,5$$

241,3		
222,3	240,85	232,08
240,4	223,55	231,98
222,8	240,05	231,93
239,7		

$$i = 0$$

238,7		
261,8	239,0	250,40
239,3	261,40	250,35
261,0	239,70	250,35
240,1		

III. allás

$$i = 0$$

243,3		
257,7	243,65	250,68
244,0	257,75	250,73
257,2	244,15	250,68
244,3		

$$i = +4,5$$

269,0		
262,1	269,25	265,73
269,7	262,60	266,15
262,1	269,80	266,45
269,9	262,50	267,20
262,9	270,10	267,00
270,3		

$$i = -4,5$$

297,3		
279,6	294,25	288,35
296,8	279,85	288,33
280,1	296,45	288,28
296,1		

$$i = 0$$

280,7		
222,1	279,55	250,83
278,4	223,05	250,73
224,0	277,60	250,80
246,8		

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1911.12.13

3

5) Kékis ömörke Csepel kö 1 darabján magyarázat.

A alát B északon.

1. sz. kö

I állás

$i = 0$

261,8		
226,1	261,4	243,75
261,0	226,45	243,73
226,8	260,60	243,70
260,2		

$i = +4,5$

254,1		
220,6	253,55	237,08
253,0	220,95	236,98
221,3	252,50	236,90
252,0		

$i = -4,5$

212,0		
247,1	212,4	229,45
212,8	246,6	229,70
246,1	213,10	229,60
213,4		

$i = 0$

246,2		
240,9	246,15	243,53
246,1	240,95	243,53
241,0	246,05	243,53
246,0		

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II állás

$i = 0$

245,6		
241,5	245,5	243,50
245,4	241,55	243,48
241,6	245,55	243,48
245,3		

$i = +4,5$

185,9		
244,7	187,0	215,85
188,1	244,15	216,13
242,6	189,05	216,33
190,0		

$$i = -4.5$$

246,8		
220,8	246,25	233,53
245,7	220,90	233,30
221,0	245,20	233,10
244,7		

$$i = 0$$

258,2		
248,5	258,45	243,58
258,7	248,20	243,45
248,1	258,75	243,43
258,8		

IIIallas'

$$i = 0$$

248,0		
259,9	248,0	243,95
248,0	259,95	243,98
240,0	247,95	243,98
247,9		

$$i = +4.5$$

267,4		
254,5	267,90	261,20
268,4	255,30	261,85
256,1	268,65	262,38
268,9	256,55	262,78
257,0	268,95	262,98
269,0		

$$i = -4.5$$

267,9		
290,0	268,45	279,25
269,0	289,60	279,30
289,2	269,30	279,25
269,6		

$$i = 0$$

220,0		
267,7	220,55	244,13
221,1	267,20	244,15
266,7	221,55	244,13
222,0		

Analul Adelen

I allas

$i' = 0$

270,2		
240,1	269,95	255,03
269,7	240,45	255,08
240,8	269,35	255,08
269,0		

$i' = +4.5$

265,9		
229,8	265,20	247,50
264,5	220,00	244,25
270,2	263,90	244,05
263,3		

$i' = -4.5$

260,0		
220,3	258,9	244,60
258,8	220,65	244,73
221,0	258,35	244,68
257,9		

$i' = 0$

240,4		
269,2	240,7	254,95
241,0	269,0	255,00
268,8	241,3	255,05
241,6		

II allas

$i' = 0$

242,9		
267,6	243,25	255,43
242,6	267,25	255,48
267,1	243,85	255,48
244,0		

$i' = +4.5$

247,2		
219,8	247,0	233,55
247,4	220,5	233,95
221,2	247,25	234,28
247,0		

$$i = -4,5$$

257,2		
222,1	256,45	239,28
255,7	222,25	238,98
222,4	254,90	238,65
254,1		

$$i = 0$$

239,1		
272,1	239,45	255,78
239,8	271,80	255,80
271,5	240,05	255,78
240,3		

III allás
 $i = 0$

270,1		
242,8	270,0	256,40
269,9	243,1	256,50
243,4	269,8	256,60
269,7		

$$i = +4,5$$

271,1		
266,3		
272,8	266,85	269,83
267,4	272,05	270,23
272,3	267,80	270,55
268,2		

$$i = -4,5$$

315,7		
277,1	315,30	296,20
314,9	278,05	296,48
279,0	314,5	296,45
314,1		

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$$i = 0$$

255,3		
258,4	255,35	256,88
255,4	258,35	256,88
258,3	255,45	256,88
255,5		

1914. okt. 14

Hőmérséklet

I. állás

$i = 0$

257,85		
248,5	251,78	250,05
251,7	248,40	250,05
248,5	251,65	250,08
251,6		

$i = +3,0$ A

243,9		
249,0	244,0	246,50
244,1	248,95	246,53
248,9	244,20	246,55
244,5		

$i = -3,0$ A

243,4		
248,7	243,55	246,13
242,7	248,50	246,10
248,5	242,80	246,05
242,9		

$i = 0$

252,6		
247,7	252,45	250,08
252,5	247,80	250,05
247,9	252,20	250,05
252,1		

II. állás

$i = 0$

252,1		
248,1	252,05	250,08
252,0	248,20	250,10
248,5	251,95	250,13
251,9		

$i = +3,0$

240,7		
242,1	240,7	241,40
240,7	242,1	241,40
242,1	240,75	241,43
240,8		

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$$l' = -3.0 \text{ M}$$

240,0		
236,3	239,85	238,08
239,7	236,25	237,98
236,2	239,50	237,85
239,3		

$$l' = 0$$

241,0		
259,0	241,35	250,18
241,7	258,65	250,18
258,3	241,95	250,13
242,2		

III allas'

$$l' = 0$$

244,7		
255,3	244,85	250,08
245,0	255,15	250,08
255,0	245,10	250,05
245,2		

$$l' = +3.0$$

261,5		
249,3	261,55	255,43
261,6	249,70	255,65
250,1	261,45	255,78
261,3		

$$l' = -3.0$$

280,9		
258,7	280,5	269,60
280,1	259,15	269,63
259,6	279,65	269,63
279,2		

$$l' = 0$$

263,1		
257,3	262,65	259,98
262,2	257,80	250,00
258,3	261,75	250,03
261,3		

Bevágott rérlap (gr).
Bevágással észak felé, az írott oldal alul.

I állás

$\ell = 0$

267,9		
254,1	267,60	250,85
267,5	254,40	250,85
254,7	267,10	250,90
266,9		

$\ell = +45^\circ N$

III. táblázat

$$l' = 0$$

246,0		
260,1	246,20	253,15
246,4	259,95	253,18
259,8	246,60	253,20
246,8		

$$l' = +3,0$$

511,0		
503,0	511,75	507,08
512,5	503,50	507,50
504,0	513,05	508,53
513,6		

$$l' = -3,0$$

531,4		
515,5	533,70	524,60
536,0	517,75	526,88
520,0	536,75	528,08
527,5	521,50	529,50
522,0		

Alko Trómati pemei anaffeli huj' citos Normalis

12h 52

294,8
194,2 290,45 242,33
289,1 195,45 242,28
196,7 287,95 242,33
286,8

a. T. 249,9

1h. 22

264,3
221,0 263,75 242,38
263,2

2h 14

248,0

247,8

2h 18

237,4 247,5 242,45

247,2

4h 20

242,9
242,3 242,6
242,9

a. T. 249,9

Jobb l. 1. f. 1. cl. 1. (+)

4h 21

242,0
242,0 242,133
242,1

a. T. 249,65

5h. 0

242,8
242,8 242,6
242,8

a. T. 249,65

Jobb l. 2. f. 1. cl. 1. (-)

Hköz. 282,5 m

ei 158,0 m

Jyros m. 284,2 m ei 158,0 m

154,0 m

5h 59

274,2
212,0 273,1 242,85 a. T. 249,95
272,0 213,1 242,15
214,2

Ju. 24 r. 7h 40

242,9

T = 249,9

Normalizálás,

Jobb láb egy fordulat elvén \oplus

257,2

a.t. 250,8

Jobb láb kettővel vissza \ominus

250,5

10 h. 18

257,2

250,55

250,88

a.t. = 257,1

250,6

257,23

250,92

257,25

250,60

250,93

250,6

257,25

250,93

257,25

10 h. 23

250,7

10 h. 41

257,05

250,7

250,88

250,7

257,03

250,87

257,0

250,73

250,87

250,75

10 h. 45

a.t. = 257,1

250,75

11 h. 0

257,0

250,78

250,89

250,8

257,0

250,90

257,0

a.t. = 257,1

Jobb láb 2 fordulattal elvén \oplus

244,2

11 h. 5 $\frac{1}{2}$ m

257,9

244,45

248,33

245,3

252,15

248,73

252,4

245,8

249,10

246,3

252,65

249,48

252,9

11 h. 10 $\frac{1}{2}$

a.t. = 250,8

253,05

11 h. 27 m

248,9

253,00

250,95

252,95

248,98

250,97

249,05

252,90

250,98

252,85

11 h. 30

a.t. = 250,8

249,7

11 h. 46

252,2

249,75

250,98

249,8

252,15

250,98

252,1

11 h. 49

a.t. = 250,8

12 h. 6

257,7

250,15

257,7

250,93

257,7

a.t. = 250,8

Ártesen

202,2		
298,3	203,55	250,93
204,9	297,10	251,00
295,9	206,10	251,00
207,3	294,65	250,98
293,4	208,55	250,98
209,8		

Arvathig jövevénye allos

$$\alpha = 0^\circ + R$$

276,9		
226,2	276,15	251,18
275,4	226,95	251,18
227,7	274,75	251,23
274,1	228,33	251,22
228,95		

$$\alpha = 90^\circ + R$$

268,9		
204,6	268,45	251,53
268,0	205,05	251,53
205,5	267,50	251,50
267,0	205,90	251,45
206,3		

$$\alpha = 180^\circ + R$$

245,2		
257,2	245,40	251,30
245,6	257,08	251,34
256,95	245,78	251,38
245,95	256,80	251,39
256,70		

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$$\alpha = 270^\circ + R$$

249,05		
253,10	249,08	251,09
249,10	253,08	251,09
253,05	249,20	251,13
249,20	253,00	251,15
252,95		

$$\alpha = 0^\circ + R$$

252,7		
250,0	252,68	251,54
252,65	250,03	251,34
250,05	252,63	251,54
252,60		

Ürsachen:

252,3		
250,3	250,25	251,28
252,2	250,33	251,27
250,35	252,20	251,23
252,70	250,40	251,30
250,45		

$$\text{II} \quad \alpha = 90^\circ + R$$

257,7		
257,6	257,7	257,55
257,7	257,4	257,55
257,4	257,7	257,55
257,7		

$$\text{IV} \quad \alpha = 270^\circ + R$$

250,9		
257,4	250,90	257,20
250,9	257,38	257,14
257,35	250,93	257,14
250,95		

Csavarok vöröskeresztjei és
Áram nélkül $i=0$

1917. Jan 9.

243,2
 260,1 243,45 251,78
 243,7 259,95 251,83
 259,8 243,85 251,83
 244,0

I. állás $i=4,5 \sim$

263,1
 247,7 263,00 255,25
 262,9 247,85 255,38
 248,0 262,70 255,25
 262,5

II. állás $i=4,5 \sim$

246,15
 212,00 245,68 228,84
 245,20 212,48 228,84
 212,95 245,00 228,97
 244,80

III. állás $i=4,5 \sim$

221,5
 279,9 222,25 251,08
 220,0 279,15 251,08
 278,4 223,60 251,00
 224,2

IV. állás $i=4,5 \sim$

319,3
 204,7 218,40 276,55
 217,5 235,70 276,60
 206,7 216,60 276,65
 215,7

V. állás $i=4,5 \sim$

213,10
 284,80 214,03 249,42
 214,95 283,95 249,45
 280,10 215,78 249,44
 216,60

VI állás $i=4.5 \sim$

193,0		
261,6	193,85	227,73
194,7	260,80	227,75
260,0	195,65	227,83
196,6		

VII állás $i=4.5 \sim$

264,8		
258,8	264,4	250,60
264,0	259,0	251,50
259,2	263,70	251,45
263,4		

VIII állás $i=4.5 \sim$

295,0		
254,3	294,50	274,40
294,0	254,95	274,48
255,6	293,50	274,55
293,0		

I állás $i=4.5 \sim$

227,05		
281,80	227,68	254,74
228,20	281,20	254,75
280,60	228,95	254,78
229,60		

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~~Állás~~ $i=0$

275,0		
229,0	274,50	251,75
274,0	229,5	251,75
250,0	272,5	251,75
272,0		

I állás

$i=+4.5 \text{ d.}$

268,2		
243,0	267,95	255,48
267,7	243,30	255,50
243,6	267,38	255,49
267,05		

januar 2.

IV állás $\alpha = 270^\circ + R$

2

262,95		
263,80	262,95	263,38
262,95	263,80	263,38
263,80	262,98	263,39
263,00		

I állás $\alpha = 0 + R$

262,95		
264,00	262,98	263,49
263,00	264,00	263,50
264,00	263,00	263,50
263,00		

Üres cu

263,95		
263,05	263,95	263,50
263,95	263,05	263,50
263,05	263,95	263,50
263,95		

I-III

-0,04

0

-0,05

-0,03

V-IV

-0,29

-0,25

-0,29

-0,26

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① $R = +0,4 \text{ C.G.S.}$

1915 januar 2. an

Ölombonger:

Uresen:

233,7		
286,25	234,55	260,30
235,0	285,58	260,29
284,9	235,80	260,35
236,6	284,25	260,43
283,6		

Csaka felfüggetlen H = D.C.S.S.

Uresen:

257,05	214,0		
241,80	247,5	214,55	230,93
248,80	215,1	246,80	230,95
	246,5	215,65	230,98
	216,2		

$\alpha = 0^\circ + R$

226,8		
235,1	226,93	231,02
227,05	235,03	231,04
234,95	227,18	231,07
227,20		

$\alpha = 90^\circ + R$

228,95		
233,70	228,98	231,34
229,00	233,50	231,25
233,30	229,05	231,18
229,10	233,25	231,18
233,20		

$\alpha = 180^\circ + R$

232,05		
229,95	232,05	231,00
232,05	229,98	231,02
230,00	232,00	231,00
231,95	230,03	230,99
230,05		

340,3	335,2	335,2	338,8	(32)
335,2	339,2	337,0	335,2	
340,2 8h.25	335,2	337,2		
335,2 337,6	339,2	8h.30	337,0	
340,1			338,7	
335,15			337,0	8h.52
			338,6	337,8
			337,0	

{ 338,2
 336,7 337,4 8h.55
 338,2

Magyarórai kúria kérem leírásait a miy pörök

337,7
 336,5 337,7 337,1 9h.10
 337,7

336,6
 337,3 336,6 336,95 9h.25
 336,6

336,7
 337,2 336,7 336,95 9h.40
 336,7

336,8
 337,1 336,8 336,95 9h.55
 336,8

337,05
 336,9 337,03 336,95 10h.10
 337,0

bal láb 2. fordulathoz előre (—)

341,95

342,25

341,95

342,15

4 h 40

260,2

342,2

342,0

342,2

342,15

4 h 50

260,2

bal láb 2. utolsó járás 2. utolsó ugrás után (+)

341,1

341,9

341,1

341,5

4 h 50

260,3

341,2

341,85

341,2

341,50

5 h 5

260,0

(—) állás

342,0

342,05

342,0

342,53

5 h 12

260,2

341,9

342,5

341,9

342,1

342,2

5 h 55

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1915 június 21.

allótúr 260,25

413,2

272,0 412,7 342,55

412,2 272,9 342,55

273,8 411,6 342,70

411,0 274,5 342,75

275,2 410,35 342,83

409,7

10 h. 45

296,4

387,9 296,85 342,38

297,3 387,40 342,35

386,9

11 h. 0

a'.t. = 260,2

310,8

373,1 311,05 342,08

311,3 372,80 342,05

372,5 311,65 342,08

312,0

11 h. 15

a'.t. = 260,2

320,1

363,7 320,4 342,05

320,7 363,4 342,05

363,1

11 h. 30

a'.t. = 260,2

Több oldalán látszik egy teljes csavarnyomattal emelve

322,0

361,35 322,15 341,75

322,3 361,18 341,74

361,0

11 h. 35

a'.t. = 260,2

327,3

356,0 327,5 341,75

327,7 355,85 341,78

355,7 327,83 341,77

327,95

11 h. 45

a'.t. = 260,2

349,1

334,4 349,05 341,73

349,0 334,50 341,75

334,6

12 h. 15

a'.t. = 260,2

336,9

346,7 336,98 341,82

336,95 346,60 341,78

346,5 336,98 341,74

337,0

12 h. 30

a'.t. = 260,2

346,1
 337,2 346,1 341,65
 346,1 337,25 342,67
 337,3 346,05 342,68
 346,0

12h. 35 m a. l. = 260,2

338,6
 344,9 338,65 341,48
 338,7 344,90 341,80
 344,9 338,70 341,80
 338,7

12h. 45 m a. l. = 260,25

Az első vizelés a l. I. és a l. II. között

339,0
 344,55 339,03 341,79
 339,05 344,53 341,79
 344,50 339,08 341,79
 339,10

12h. 50 a. l. = 260,3

340,9
 342,9 241,9 1h. 30
 340,9

341,2
 342,4 341,8 1h. 50
 341,2

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Az első vizelés a l. I. és a l. II. között

340,8
 342,7 341,75 1h. 50 a. l. = 260,2
 340,8

Az első vizelés a l. I. és a l. II. között

342,2
 340,9 341,55 2h. 0 a. l. = 260,2
 342,2

341,65 4h. 10 260,3

Az első vizelés a l. I. és a l. II. között

342,2
 344,5 341,85 4h. 15 260,4
 342,2

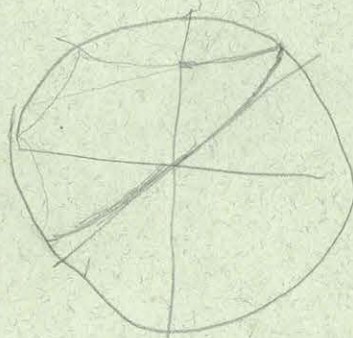
342,2
 341,6 341,88 4h. 23 260,4
 342,15

342,1
 341,7 341,9 4h. 40
 342,1

11h. 18h. Vízszintes C. Tr. fel

$I = 0$ Ms 5106 /21

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Aradu.

Május 28 D. e. 10 h. 8. 318.

Iszakkal meg a mészével

Jelző lap levere. legin. egy, legin. egy 150.
120.

Jelző szobkondóval legin
alápiszva ismét meg legin 12,5

300 és 300 körüli egy legin 300

meg egyenlő alapra legin 222 től 390 g
egy (dupla) legin is körülbelül 2 m. 50

Május 29 D. n. 12 h. 57 m 310,5

gyógyulok állom. legin ~~311,5~~ 311,5 és 310,5
körül

Körülbelül 250 alom

A jelző négyzetek között felmelve megfigyelve
jelző szoba

legin 276 től 350 g

357

285

~~1 h. 32~~

276

65

1 h. 32 180 331

350

55 294

legin is körülbelül 42

44 28 226,4

42

5 19 297,2

7 m 21 300,0

320,0

~~hato~~ jövedelmek ~~előzetes~~ jövedő legyet elvett
 nem fiztettem egyenlet elvén ~~hato~~ a legyet ~~előzetes~~
 megállás elvén ~~hato~~ $14,12$ m. ker.
 a ~~hato~~ ~~előzetes~~ ~~előzetes~~ ~~előzetes~~
 megállás

$14,30$ m 200 ker. ~~előzetes~~

26 m 200 . ~~előzetes~~

~~előzetes~~ 5 h. 20 m. ~~előzetes~~ ~~előzetes~~ ~~előzetes~~

5 h. 37 m. $331,2 \times$ ~~előzetes~~

47 m 300 . $318,7 \times$

~~előzetes~~

Jelen

Jelen 341°

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$D_1 = 0$ $257,6$

előzetes $357,6$

11 m 20 m. ker.

$D = \pi = 248,1$

~~előzetes~~ ~~előzetes~~ ~~előzetes~~

11 m 20 m. ~~előzetes~~ ~~előzetes~~ ~~előzetes~~ 180°

~~előzetes~~ ~~előzetes~~ $= 248,1$

~~előzetes~~ ~~előzetes~~ 180° ~~előzetes~~ 341°

208

$D = 2\pi$ $338,0$

11 m 21 m. ~~előzetes~~ ~~előzetes~~ ~~előzetes~~ 160°

~~előzetes~~ ~~előzetes~~ ~~előzetes~~ 6 m 21 m. ~~előzetes~~

~~előzetes~~ 50

$D = 4\pi = 324$

~~előzetes~~ 260° ~~előzetes~~

324 208

$D = 6\pi$ 208

201 m. 14

Jan 1941

Csuda

4 h. 33 199,2
40 m 50 - 201,2 200,20

41 m 30 199,4 x

42 - 35 203,0

43 - 50 197,9

44 55 204,0

46 m. 196,7

47 m 204,9

48 m 195,8

49 m 50 205,4

50 m 50 195,1

51 m 5 206,0

52 m 5 194,8

53 m 206,1

54 m 194,5

54 50 - 206,2

55 - 45 194,4

56 - 45 206,3 → Adm. chert.

~~57~~ 40 194

58 35 205,6

59 32 195,0

5 h. 0 m 35 204,9

1 m 35 195,6

2 m 35 204,2

3 m 40 196,2

4 m 205,8

5 m 35 196,7

7 m 00 205,5

9 m 40 0. 194,2 246,19

10 m 40 0. 200,5) 197,35

11 m 40 195,1) 197,80

12 m 40 199,8) 197,15

~~13 m 40~~

281

Jan 1941
2460

Vine 241° m.

Th. - 16m 100 205,1
 17m 20 197,6) 200,35
 18m 20 202,8) 200,20
 19m 25 197,9) 200,35
 20m 20 202,5) 200,20

John 236° m.

23m 15 200,2) 202,65
 24 10 205,1) 202,95
 25m 10 200,8) 202,150
 26m 10 204,2) 202,70
 27 10 201,2

John 221° m.

29m 15 205,0
 30m
 30 40 207,0
 31 15 205,8
 31 40 207,0

S' on 42 hr all 206,6 m

Barometer John in the house.

47m 300 205
 45 - 208
 45 300 204,8

John's ablat barometer.

47m 200 212
 48m 00 197,6
 48m 10 213,0

Ally

Vine 241° m

John's 1m. m. m. m.
 m. m. m.

1884 March 14

D, e

min. 15

186

12h.	25 m	20	Alpyn	186
	26	-		188
	27	-		196
	28	-		210,2
	29	-		229
	30	-		249
	31	-		270
	32	-		288,5
	33	-		304
	34	-		315
	35	-		321
	36 A.			321,8
37	-			315

Alpyn

Alpyn

min. 17

D.e.	8h.	29 m	40	262,4	Alpyn
		32 m		262,0	259,8 eggs
		33 m	-	261,0	
		34 m		260,2	
		35 m		259,2	
		36 m		258,0	
		37 m	—	257,6	
		38 m	—	257,1	
		39 m		256,9	259,9 eggs
		40 m	—	257,0	
		42 m	—	257,9	
		44	—	259,4	
		46	—	261,0	
		48	—	262,0	
		49	—	262,2	
		50	—	262,3	
		51	—	262,3	

Mein 18 d. e. 10 h, 22 — 260,8

34 m. 50 h. *cl. p. g. t. m. h. m. e*

35 m	—	260,8	} 265,3 <u>g. g. e. m. e</u>
36 m	—	261,1	
37 m	—	261,4	
38	—	262,8	
39	—	263,9	
40	—	265,1	
41	—	266,4	
42	—	267,4	
43	—	268,2	
44	—	268,8	

45 m. 10	—	268,9	} 8 17 <u>269,1</u> 265,7 <u>g. g. e. m. e</u>
46 m.	—	268,7	
50 m.	—	265,7	
52 m.	—	264,0	
53	—	263,4	
54	—	263,0	
54 - 40	—	262,8	
55	—	262,8	
56	—	262,9	
57	—	263,2	

Mein 19 d. e. 10 h. 2 m. 266,4

$$- \delta = \frac{x_3 - 2x_2 + x_1}{x_2 - 2x_1 + x_0}$$

$$cT = \frac{x_2 - x_1 + (x_1 - x_0) \delta}{1 + \delta}$$

$$a_0 = \frac{x_1 + x_0 \delta - cT}{1 + \delta}$$

Oktober 6-ihi észlelés

$$x_0 = 424,6$$

$$x_1 = 179,7$$

$$x_2 = 269,3$$

$$x_3 = 226,6$$

eredmény - $\delta = \frac{226,6 + 179,7 - 738,6}{369,3 + 424,6 - 359,4} = \frac{332,3}{404,5} = 0,7646$

$$cT = \frac{189,6 - 0,765 \times 244,9}{1,765} = \frac{2,3}{1,765} = 1,30$$

$$a_0 = 285,0$$

és a 424,6 alatti abszolút

egyenlő 285,65

egyenlő 286,95

egyenlő 288,25

egyenlő 289,55

abszolút mély 5 h. 56 m 18 s

abszolút mély 6 h. 11 m 2 s

abszolút mély 6 h. 25 m 42 s

abszolút mély 6 h. 40 m 29 s

Oktober 10-ihi észlelés

transverzális állás

$$x_0 = 39,2$$

$$x_1 = 436,7$$

$$x_2 = 133,8$$

$$x_3 = 366,0$$

$$\delta =$$

$$cT =$$

$$a_0 =$$

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Poisson. De l'équilibre et du mouvement des corps pesants.

Annales de l'école Normale Supérieure

II Série Tome I, 1872.

Poiss. Études sur la résistance de l'air

Journal de l'école polytechnique 52ème Année 1882

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$$\frac{P_x}{f_0} = \frac{a}{f_0} \arctg \frac{bc}{a\sqrt{a^2+b^2+c^2}} + b \log \frac{\sqrt{a^2+b^2}(c+\sqrt{b^2+c^2})}{b(c+\sqrt{a^2+b^2+c^2})} + c \log \frac{\sqrt{a^2+c^2}(b+\sqrt{b^2+c^2})}{c(b+\sqrt{a^2+b^2+c^2})}$$

$$I = \arctg ()$$

$$II = \log ()$$

$$III = \log ()$$

$$\frac{P_x}{f_0} = aI + bII + cIII$$

a	b	c	$\frac{b}{a}$	$\frac{c}{a}$	I	II	III	$\frac{P_x}{f_0}$	
30	15	12,35	0,500000	0,411667	0,171076	0,390433	0,577983	18,12688	j
30	15	32,25	0,500000	1,075000	0,333595	0,654882	0,115504	23,55613	j
30	45	12,35	1,500000	0,411667	0,322290	0,0447004	0,874044	22,4747	j
30	45	32,25	1,500000	1,075000	0,655071	0,1006158	0,215410	31,1268	31,87427
30	15	11,85	0,500000	0,395000	0,165045	0,378322	0,607550	17,82546	
30	15	22,35	0,500000	0,745000	0,269692	0,564326	0,237940	21,8736	
20	45	22,35	1,500000	0,745000	0,520244	0,759194	0,431806	28,6745	
20	15	2,35	0,500000	0,0783333	0,0349308	0,0860294	2,07302	7,20997	
20	45	2,35	1,500000	0,0783333	0,0650232	0,00876043	2,45386	8,11150	

f hiszimentar 120r alomból fotograpulor.

a	b ^{minut}	c	
20	15	4,76	11,2802
20	45	4,76	13,0861
20	15	14,65	19,31700
20	45	14,65	24,31691

lense 120 C.

$$e \text{ jelent } 6.14,95.100,04.\frac{23}{22} 12,8796 = 0,625 \frac{x}{123}$$

$$\sigma \text{ értéke} = \frac{194040}{9,89 \times 20 \times 20} = 10,90$$

$$4x = 113 \left(1 + \frac{1}{120}\right)$$

példánként

$$4x = 114$$

$$x = 2,85$$

$$f = \frac{0,625 \cdot 2,85 \cdot 22}{123 \cdot 10,9 \cdot 14,95 \cdot 100,04 \cdot 23 \cdot 12,88} = 0,0000000660$$

$$\begin{array}{r}
 28968 \\
 0,005867 \\
 \underline{12333} \\
 + 0,018200 = \text{I, IV} \\
 - 0,033170 = \text{II, IV} \\
 \hline
 - 0,014970
 \end{array}$$

$$\begin{array}{r}
 - 0,015347 \\
 0,017823 \\
 \hline
 - 0,033170
 \end{array}$$

$$\begin{array}{r}
 \text{II, III, IV} + 0,003961 \\
 - 0,003019 \\
 \hline
 - 0,000942 \\
 - 0,015046 \\
 \hline
 - 0,015988
 \end{array}$$

$$\begin{array}{r}
 \text{I, II} - 0,009118 \\
 \text{III, V} - 0,005928 \\
 \hline
 - 0,015046
 \end{array}$$

$$\begin{array}{r}
 k + C(A \sin 2\alpha + B \cos 2\alpha) \\
 k - C(A \sin 2\alpha + B \cos 2\alpha) \\
 \hline
 2k
 \end{array}$$

$$\begin{array}{r}
 + 0,006603 \\
 0,012463 \\
 \hline
 + 0,019066 \\
 - 0,039078 \\
 \hline
 - 0,020012
 \end{array}$$

$$\begin{array}{r}
 - 0,077913 \\
 - 0,021165 \\
 \hline
 - 0,039078
 \end{array}$$

$$\begin{array}{r}
 - 0,052557 \\
 - 0,049044 \\
 \hline
 - 0,101601 \\
 + 0,093278 \\
 \hline
 - 0,008323
 \end{array}$$

$$\begin{array}{r}
 + 0,050145 \\
 0,043133 \\
 \hline
 + 0,093278
 \end{array}$$

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413 87 381 243 224	415 101 269 118 219 109 269 328 189	312 118 280 187 280 550 275 462 231	340 97 316 656 328 425 218	263 418 340 216 189 255 289 403 281	214 233 244 262 384 273 536 268 652 326	294 392 89 486 243 32 mm
---	--	--	---	--	--	---

1 2 2 23 3 34 4

ju. 8 - du

T. kár. 102,5 cm. egyenfüly helyzet 330

1-2. kár. 105,8 cm. egyenfüly 314,0

2. kár. 117,6 cm. egyenfüly: 202,4

2-3. kár. 110,0 cm. egyenfüly 242,8

3. kár. 102,3 cm. egyenfüly 326,6

3-4. kár. 112,6 cm. egyenfüly 332,1

4. kár. 112,7 cm. egyenfüly 224,5

4-1. kár. 112,3 cm. egyenfüly 254,3

1. kár. 104,3 cm. egyenfüly 333,5.

$164,5 : 182,5 = 0,901$
 $164,50 : 1901 = 86,5$
 $87,4 : 96,4 = 0,907$
 $215 : 232,2 = 0,906$
 $113,9 : 126,4 = 0,901$
 $158,8 : 172,2 = 0,896$
 $1415 : 1563 = 0,905$
 $1175 : 129 = 0,911$

$400,5$
 $156,6$
 $202,4$
 130
 $242,8$
 $260,6$
 $332,1$
 $224,5$
 $254,3$
 $333,5$

$0,9$

függő 9-es. legyár.

8138	5638
4069	2819
257	385
6639	6669
331,9	333,3

1.) ~~332~~ táv. 104,3 cm.
egyenlő 332,5.

1-2.) táv. 100,0 cm. 283,2
egyenlő 309,3. 332,8
288)

2. táv. 118,7 cm. 312,8
egyenlő 201,9. 102,0
291,8)

2-3. táv. 115,7 cm. 387
egyenlő 242,1. 116,5
356,0) 264,5
239,5

3. táv. 108,9 cm. 272,2
egyenlő 333,6 385,0
286,6) 102,8
98,4

3-4. táv. 113,7 cm. 415,0
egyenlő 331,8. 257,0
398,8) 158
141,8

4. táv. 111,5 cm. 143,2
egyenlő 223,7. 296,0
158,7) 152,8
137,3

4-1. táv. 111,1 cm. 152
egyenlő 257,1. 158,0
342,0
175,5) 189,0
121,5

1. táv. 111,3 cm. 257,0
2156
1028 416,0
271,0) 159
145

49,6
44,8

$448:496=0,903$
1600

$448:1903=235$
6240
10310 309,3

$1898:2108=0,90$
00860

$1898:19=99,9$
188
170 201,9

$239,5:264,5=0,906$
14500

$2395:1906=125,6$
4870
10280
12500 242,1

$984:1078=0,913$
1880
3020

$984:1913=514$
2750
8320 333,6

$1418:158=0,897$
1840
1180

$1418:1899=74,8$
9010
14220 337,8

$1373:1528=0,899$
15060
13080

$1373:1899=72,3$
1320
5220 223,7

$1715:189=0,907$
1400

$1715:1907=89,9$
18910
17220 257,1

$145:159=0,912$
190
310

$145:1912=75,8$
11160
16000 380,2

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0,8
329,4
331,6
610
330,5

98,4

22,2

360,6

25

358,1

$$627:691=0,907$$

5100

$$627:1907=32,8$$

5490

16760

325,3

$$753:1023$$

234,4

862,2

2,6

4,6

$$2108:2318=0,909$$

$$2108:1909$$

132,8

110,824

243,2

$$2108:1909=11$$

1990

10810

$$1068:11=0,006182$$

120

90

$$177 \quad 853:953=0,905$$

157,1

292,2

$$853:1895=0,9$$

157,7

45,07

$$1582:1786$$

202,2

0,89

394,2

83,96

$$1404:1547$$

310,8

15

1000

1907

182,2

23,6

255,8

563,2

286,8

381

662,8

333,9

$$1569:1742$$

1901

302,9

82,5

225,4

$$1694:1864=0,908$$

16400

345,6

88,2

256,9

$$1096:1224$$

1892

382,2

57,7

330,0

$$136:1506=0,903$$

04600

295,9

71,4

$$945:1038=0,910$$

1080

420

385

49,3

335,2

$$1367:1513=0,904$$

05200

224,5

224,5

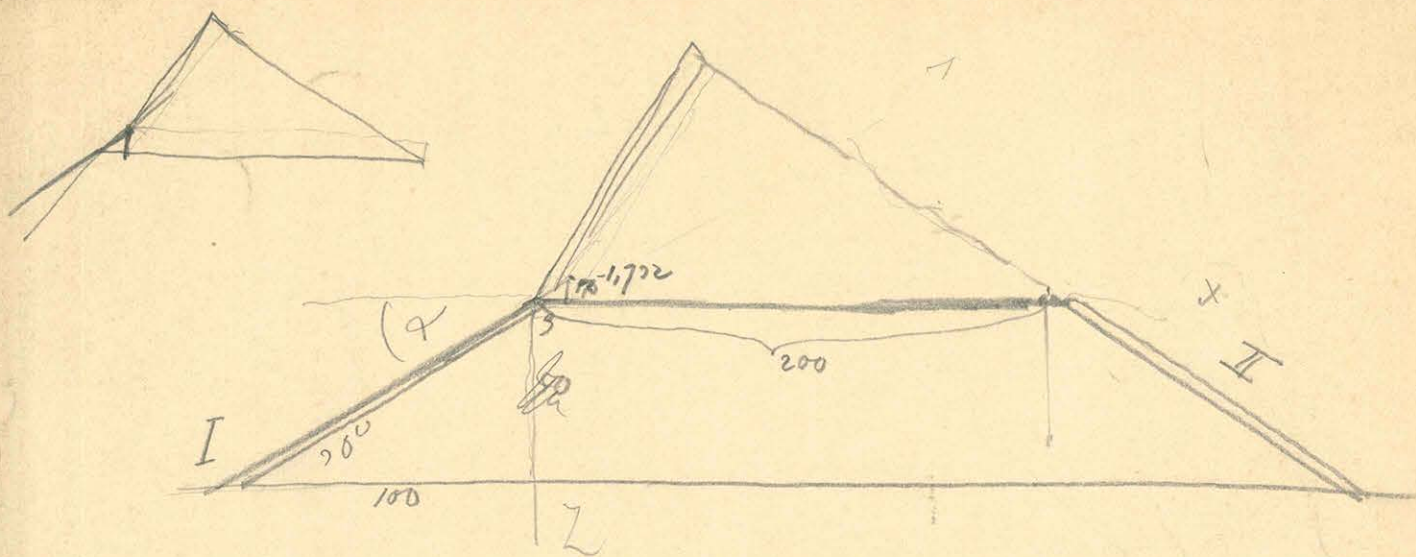
252

21,2

328,2

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2



$$B_t \quad \frac{\partial^2 V}{\partial x \partial z} = \sin^2 \alpha I_t - \sin^2 \alpha II_t + \frac{\sin 2\alpha}{2} II_n$$

$$\frac{\partial^2 V}{\partial x^2} = -\frac{\sin 2\alpha}{2} I_t - \frac{\sin 2\alpha}{2} II_t - \sin^2 \alpha II_n$$

$$T = 10 \left\{ \log \frac{D + \sqrt{h^2 + c^2}}{D + \sqrt{A^2 + h^2 + c^2}} \cdot \frac{\sqrt{A^2 + c^2}}{c} - \log \frac{D + \sqrt{h^2 + c^2}}{D + \sqrt{A_0^2 + h^2 + c^2}} \cdot \frac{\sqrt{A_0^2 + c^2}}{c} \right\}$$

$$T = 10 \log \frac{D + \sqrt{A_0^2 + h^2 + c^2}}{D + \sqrt{A^2 + h^2 + c^2}} \cdot \frac{\sqrt{A^2 + c^2}}{\sqrt{A_0^2 + c^2}}$$

$$N = 10 \arctan \frac{BC}{A \sqrt{A^2 + h^2 + c^2}} - 10 \arctan \frac{B_0 c}{A_0 \sqrt{A_0^2 + h^2 + c^2}}$$

$$\alpha = 30^\circ$$

$$\frac{1}{2} I_t \quad A = 100 + \sqrt{15^2 + 15^2} = 102,384 \quad B = 100 \quad C = 0 \quad A_0 = 9,3541$$

$$\frac{1}{2} II_t \quad A_0 = 197 \cos 30 + 1,5 \sin 30 = \frac{171,49}{171,49}, \quad A = A_0 + \frac{100}{\cos 30} = 286,95 \quad B = 100 \quad C = 97$$

$$\frac{1}{2} I_t \quad A_0 = \frac{3}{\cos 30} = 3,464 \quad A = \frac{103}{\cos 30} = 118,93 \quad B = 100 \quad C = 0$$

$$\frac{1}{2} I_t = 3,2921 \quad I_t = 6,5842$$

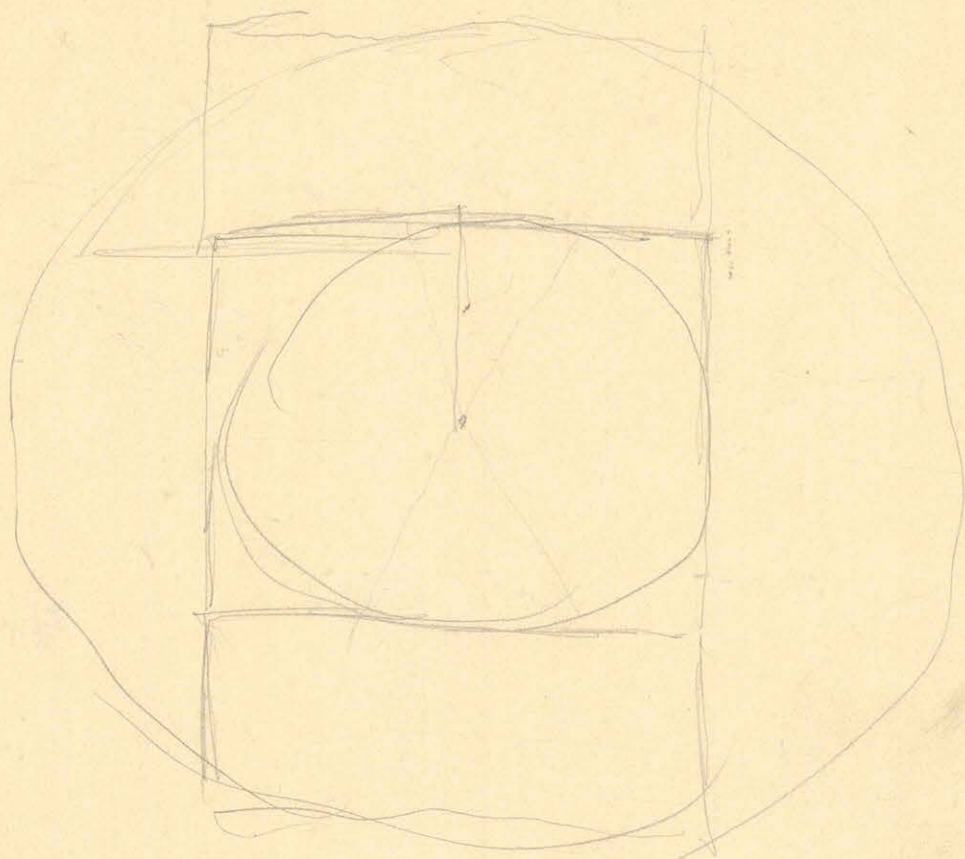
$$\frac{1}{2} II_n \quad A_0 = \frac{171,49}{171,49} \quad B = 286,95 \quad C = 100 \quad A = 97$$

$$II_n = 9,1454$$

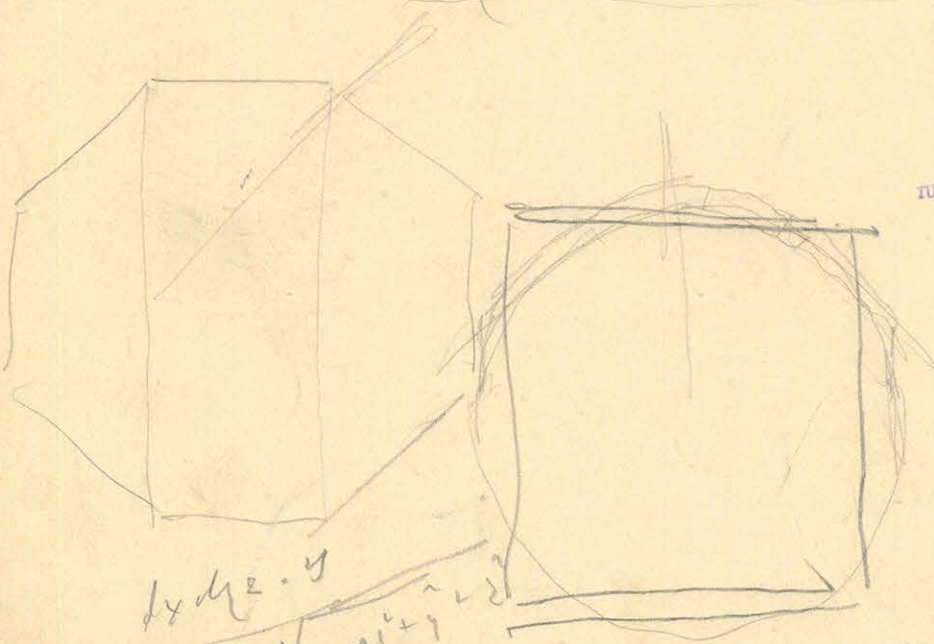
$$\frac{1}{2} II_n = 42^\circ 50' - 38^\circ 40' = 4^\circ 10' = 250' = 0,072722$$

$$\frac{\partial^2 V}{\partial x \partial z} = 1,64605 - 0,08177 + 0,06298 = 1,62726$$

$$\frac{\partial^2 V}{\partial x^2} = -2,85104 - 0,14164 - 0,01818 = -3,01086$$



$$\frac{(r-a)(z-\xi)}{\left((r-a)^2 + (z-\xi)^2 + r^2 \sin^2 \theta \right)^{\frac{3}{2}}}$$



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$$\frac{dx dy dz \cdot y}{(x-a)^2 + y^2 + z^2} \sqrt{(x-a)^2 + y^2 + z^2}$$

$$\frac{y}{r}$$

$$\frac{dx dz r \sin \theta \cos \theta dz}{\left((r \cos \theta - a)^2 + r^2 \sin^2 \theta + z^2 \right)^{\frac{3}{2}}}$$

$$\frac{dx dz dy (z}{\left((x-a)^2 + y^2 + z^2 \right)^{\frac{3}{2}}}$$

Vél chromomate jódos összehasonlítás.

Tiede - Magyarországi.

Mérics 2 este 8 óráig ...	3 m 50,0 s.	7,5	$\frac{7,5}{13,5} = 0,555$
" 4 napig 9 h. 20 m.	3 m 57,5 s.	10,5	$\frac{10,5}{22,5} = 0,471$
" 5. nap 8 h. 0 m.	4 m 8,0 s.	17,3	$\frac{17,3}{30,5} = 0,567$
6. nap 1 h. 20 m.	4 m 25,0 s.	12,5	$\frac{12,5}{24} = 0,521$
7. nap 2. h. 10 m.	4 m 37,5 s.	18	$\frac{18}{31,66} = 0,568$
8. nap este 9 h. 10 m.	4 m 55,5 s.	25	$\frac{25}{45,5} = 0,549$
10. nap este 6 h. 40 m.	5 m 20,5 s.		

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Házi feladat.

Hogy számítandó ki a négyzet, egyenkörű, trapéz és háromszög területét és kerületét.

Hidolgoris.

A négyzet területe és kerülete.

Ha a négyzet egyike oldalai 2 cm mennyi a négyzet területe?

$$2 \times 2 = 4 \text{ cm}^2 \text{ a területe.}$$

ennyi a kerülete

Az egyenkörű területe $\frac{6 \times 3}{2} = 9 \text{ cm}^2$ 6 cm. 3 cm.

kerülete

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A trapéz területe 6 cm. 8 cm 10 cm.

$$\frac{6 \times 10}{2} = 30 \quad \frac{8 \times 10}{2} = 40 \quad \frac{30 + 40}{2} = 35 \text{ cm}^2$$

kerülete

A háromszög területe

$$6 \times 4 = 24 : 2 = 12 \text{ cm}^2$$

kerülete

alap. 6 cm magasság 4 cm

$$\begin{array}{r}
 1000 \cdot \quad 580 \\
 \times \quad 41.5 \\
 \hline
 41500 \quad 2025 \\
 580 \quad 29 \\
 \hline
 415 \\
 90 \\
 \hline
 \end{array}$$

$$58 \cdot x =$$

7.

$$\begin{array}{r}
 35 \\
 54.5 \cdot 58 \\
 2725 \\
 4360 \\
 \hline
 31610 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 1000 \quad 580 \\
 54.5 \quad \times
 \end{array}$$

$$\frac{54.5}{1000} \times 580$$

$$\begin{array}{r}
 54.5 \times 58 \\
 4360 \\
 2725 \\
 \hline
 31610 \\
 54.5 \\
 \hline
 22,89
 \end{array}$$

Krüger Antalka

IV in ostent.

$$\begin{array}{r}
 3732,42.4 \\
 1492968
 \end{array}$$

$$14929,68 : 1869 =$$

12 11

$$\begin{array}{r}
 1000 \text{ fin} \quad 229
 \end{array}$$

$$\begin{array}{r}
 9 \quad 10 \\
 1000 \quad \times \\
 \hline
 \end{array}$$

$$1000 : 9 = 1,1111$$

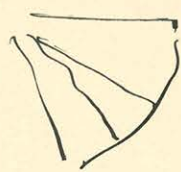
1111,111

$$\begin{array}{r}
 1111,111 : 229 = 3,982 \\
 2291 \\
 2301 \\
 \hline
 691
 \end{array}$$

$$1000 : 3,982$$

$$F = a_1 \sin \varphi + a_2 \sin 2\varphi + a_3 \sin 3\varphi + a_4 \sin 4\varphi.$$

$$F_{\frac{\pi}{2}} = a_1 - a_3 = A$$



$$F = \frac{\sin \varphi}{(1 - k \cos \varphi)^2}$$

$$F_{\frac{\pi}{4}} = \frac{a_1}{\sqrt{2}} + a_2 + \frac{a_3}{\sqrt{2}} = B$$

$$\cancel{F_{\frac{\pi}{6}} = \frac{a_1}{2} + a_2 \frac{\sqrt{3}}{2} + a_3 + a_4 \frac{\sqrt{3}}{2}} = F_{\frac{\pi}{6}} = \frac{a_1}{2} + a_2 \frac{\sqrt{3}}{2} + a_3 + a_4 \frac{\sqrt{3}}{2}$$

$$\cancel{F_{\frac{\pi}{3}} = \frac{a_1}{2} + a_2 \frac{\sqrt{3}}{2} + a_3 + a_4 \frac{\sqrt{3}}{2}}$$

$$F_{\frac{\pi}{8}} = a_1 \sin \frac{\pi}{8} + a_2 \frac{1}{\sqrt{2}} + a_3 \sin \frac{3\pi}{8} + a_4$$

sin

$$\frac{1}{(1-k)^2} = a_1 \sin \varphi + a_2 \sin 2\varphi + a_3 \sin 3\varphi + a_4 \sin 4\varphi.$$

$$D = \frac{1}{(1-k)^2} = a_1 + 2a_2 + 3a_3 + 4a_4$$

$$B = \frac{A}{\sqrt{2}} + 2\frac{a_3}{\sqrt{2}} + a_2$$

$$C = \frac{A}{2} + 3\frac{a_3}{2} + \frac{\sqrt{3}}{2}a_2 + \frac{\sqrt{3}}{2}a_4$$

$$D = A + 4a_3 + 2a_2 + 4a_4$$

$$4C - \frac{\sqrt{3}}{2}D = A(2 - \frac{\sqrt{3}}{2}) + a_3(6 - 2\sqrt{3}) + a_2(\frac{\sqrt{3}}{2})$$

$$B = \frac{A}{\sqrt{2}} + a_3 \sqrt{2} + a_2$$

$$4C - \frac{\sqrt{3}}{2}D - \sqrt{3}B = A(2 - \frac{\sqrt{3}}{2} - \frac{\sqrt{3}}{\sqrt{2}}) + a_3(6 - 2\sqrt{3} - \sqrt{2}\sqrt{3})$$

$$a_3 = \frac{4C - \frac{\sqrt{3}}{2}D - \sqrt{3}B - A(2 - \frac{\sqrt{3}}{2} - \frac{\sqrt{3}}{\sqrt{2}})}{(6 - 2\sqrt{3} - \sqrt{2}\sqrt{3})}$$

$$A = 1$$

399/pt 30 jährlück jeder 98. Wanne.
auf 20 Jahre

0,30103	0,29885	0,29226	0,28103	0,26482	0,24504	0,21484	0,17898	0,12254
0,01080	0,10350	0,09360	0,16115	0,24230	0,22285	0,43300	0,53710	0,64420
	0,04255	0,4255	0,09360	16115	24230	33285	42700	52710
	0,01080		0,18743	0,10367	0,00074	0,8099-1	0,74598-1	0,59644-1
	0,28885	0,24971						

0,07555	0,00000	0,74819-1	0,60206-2
0,75255	0,96850	96850	1,17825
64420	75255	0,77969-2	0,42381-3
0,43735-1	0,24745-1		

0,00000-1	0,30103-1	0,47712-1	0,60206	0,69897-1	0,77815-1	0,84510-1	0,90209-1
0,01080	0,04255	0,09360	0,60206-1	0,24230	0,22285	42700	52710
0,98920-2	0,25848-1	0,38352-1	0,16115	0,45667-1	0,44430-1	0,41210-1	0,36599-1
			0,44091-1				

0,95424-1	0,00000	0,07918	0,14617
0,01080	0,75255	0,96850	1,17825
0,64420	0,24745-1	0,11068-1	0,96788-2
0,31004-1			

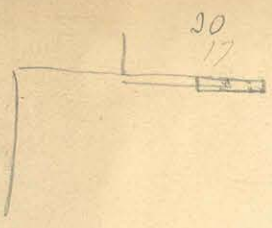
0,74819-1	0,09342	0,30103	0,62839	0,84510	1,14613	1,36173
1,37860	1,56840	1,74740	2,15085	2,50000	3,07615	3,40435
0,36959-2	0,52502-2	0,55363-2	0,47754-2	0,34510-2	0,06998-2	0,95738-3
1,37860	1,56840	1,74740	2,15085	2,50000	3,07615	3,40435
0,20412	0,25527	0,30103	0,39794	0,47712	0,60206	0,69897
0,82552-2	0,68687-2	0,55363-2	0,24709-2	0,97712-3	0,52591-3	0,29162-3

2

1

MAYAN
NUMBER OF KAROLINA
CONVERTER

255
10200
3000
1200
20400



22,6
225
5062
4320
9582
7m

1440
4320

0,6465564 - 1 10000
0,0006456

0,4825638 - 1
0,3622185
0,8445823 - 1
6T 2,6965564
0,1482259 - 3
0,2964518 - 6

$$\frac{0,0000019791}{0,000041935} = \frac{\tau}{K}$$

МАШИНА
ТОПОГРАФИЧЕСКАЯ
КОМПАСНАЯ

$$\underline{K = 11,680}$$

0,6400554 - 1
6225766 - 4
0,0674588

2

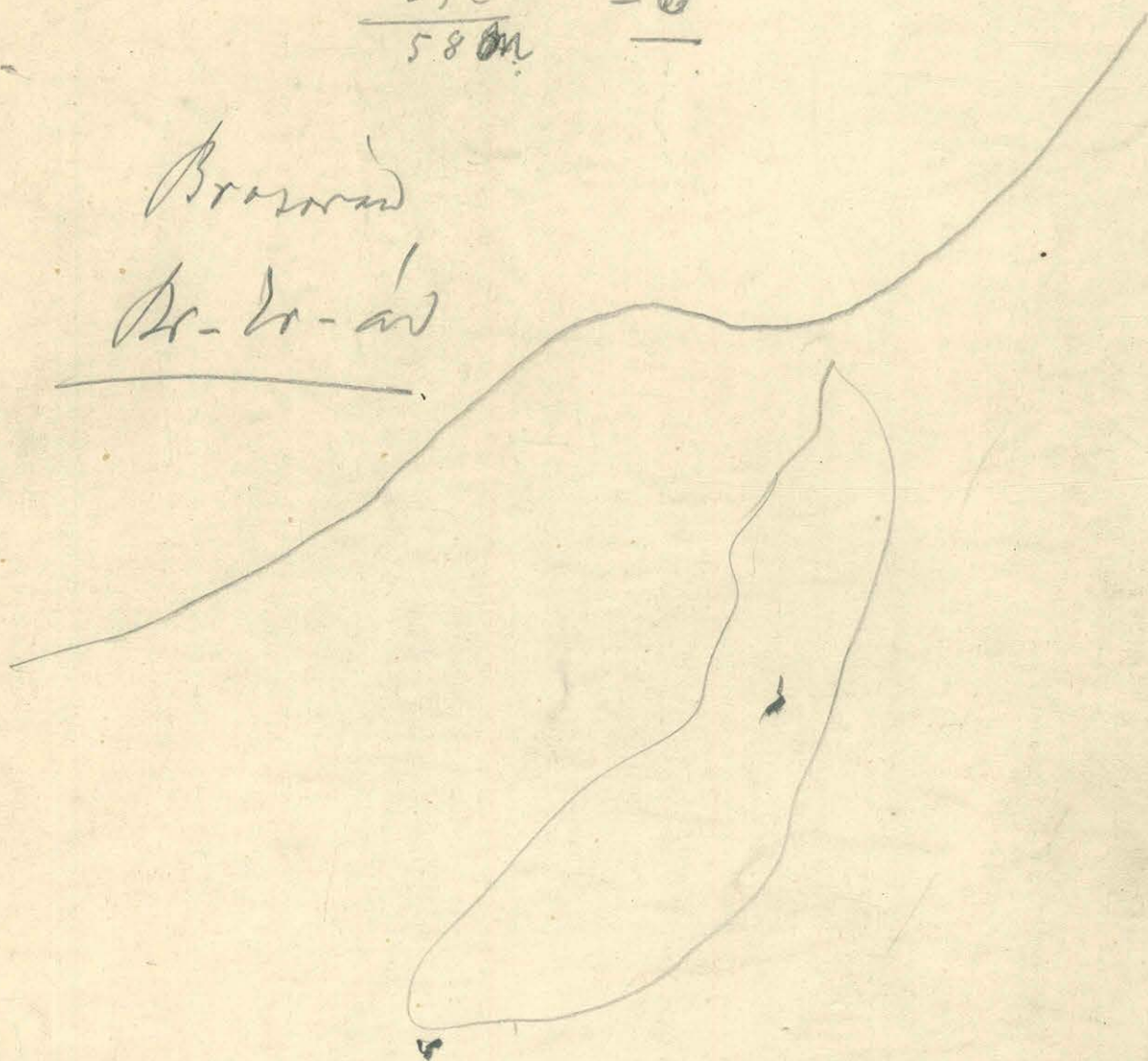
270000 x 10	=	2,700,000
27000 x 25	=	575,000
27000 x 33	=	9,000,000
27000 x 34	=	9,000,000
80000 x 26	=	2,080,000
200000 x 10	=	4,000,000
200000 x 20	=	4,000,000
		<u>36,530,000</u>
		109,590,000

1390 ~~1390~~ 1390 13 - 27.4 mg/m³, 27.4.

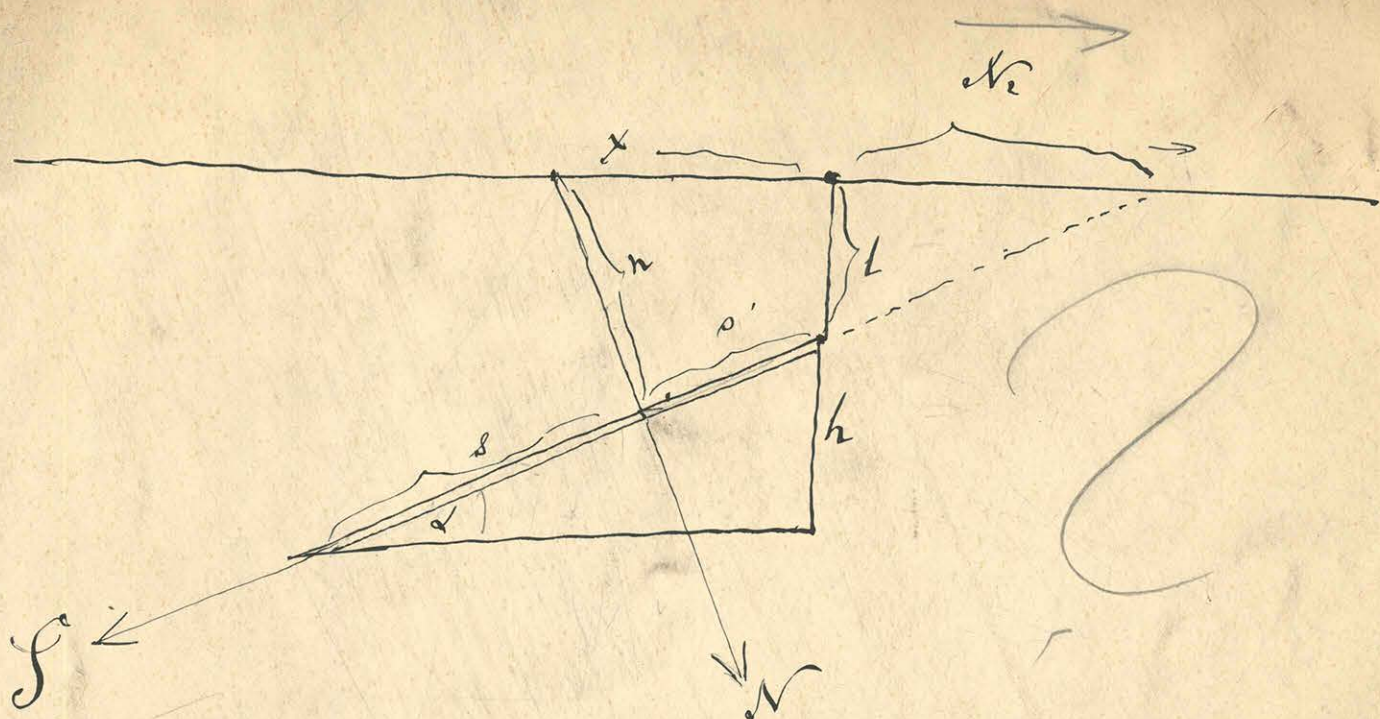
8	200000	.5	1,000,000
8' 317	220000	38	6,600,000
3 12	550,000	30	16,500,000
75	17000	55	9,350,000
85	200000	40	8,000,000
9.15			
5308			
			<u>43,45</u>
			173,80
			13035
			<u>32,8</u>

33	5		
-50	10	-33	-330
-22	4	-16	-64
-17	3	-13	-39
-28	7	-21	-147
-48	7	-36	-252
+26	2	+21	+42
+46	6	+35	+210
			<hr/>
			832
			252
			<hr/>
			580
			-6

Brazov
Dr. Dr. Dr.



AKADEMIA
 KUNYIARA



$$N_1 = \frac{2}{\sin \alpha} \left(\arctan \frac{h}{n} + \arctan \frac{s}{n} \right)$$

$$N_2 = \frac{2}{\sin \alpha} \left(\arctan \frac{h}{n} - \arctan \frac{s}{n} \right)$$

Ar. értékei.

$$S = \mu_0 \log \frac{s^2 + h^2}{s'^2 + n^2}$$

$$\frac{\partial K}{\partial z} = N \cos \alpha + S \sin \alpha = 0,995036 \left(N + \frac{S}{10} \right)$$

$$\frac{\partial K}{\partial x} = N \sin \alpha - S \cos \alpha = 0,995036 \left(\frac{N}{10} + S \right)$$

Ms 5106/22-23. Eötvös L. neves jászai

2. kötet bor.

M. JUD. AKADEMIA
KÖNYV-ÉRTESZÉSI KÖZVETLEN
19. sz. 17. sz.

Ms 5106 / 22

Takasaki - Teradomari
szigetelt vasletek

x	i	millimim J	h	millimim $\frac{h}{h}$	millimim $\frac{h}{h} \tan i + \frac{J}{\cos i}$
Takemaki 0	$50^{\circ} 3'$		2,945		
50	$50^{\circ} 11'$	+230	2,935	-346	-415 + 561 +146
100	$50^{\circ} 10'$	-230	2,933	+240	+288 - 561 -273
150	$50^{\circ} 16'$	+2233	2,934	-1108	-1333 + 5465 +4132
175	$50^{\circ} 58'$		2,917		
200	$50^{\circ} 32'$	-1995	2,965	+4167	+5061 + 4941 +120
225	$50^{\circ} 35'$	+2727	2,955	-5891	
250	$51^{\circ} 21'$	+2727	2,865	-5891	-7366 + 6991 -375
275	$51^{\circ} 35'$	-	2,845	+2952	
300	$51^{\circ} 19'$	-837	2,882	+2952	+3687 - 2143 +1544
350	$51^{\circ} 6'$	+127	2,964	-211	-261 + 522 +61
400	$51^{\circ} 17'$	+416	2,906	-90	-112 + 1063 +951
450	$51^{\circ} 32'$	+442	2,911	+303	+381 + 1142 +1523
500	$51^{\circ} 39'$	+26	2,905	-750	-948 + 68 -880
550	$51^{\circ} 40'$	+178	2,886	-321	-406 + 463 +57
600 Ferdinand Körp	$51^{\circ} 50'$		2,895		
	51°	+261	2,915	-145	-179 + 659 +480

$$x = A e^{-\alpha t} \cos \frac{t - t_0 \pi}{T}$$

$$v = -\alpha A e^{-\alpha t} \cos \frac{t - t_0 \pi}{T} - A e^{-\alpha t} \frac{\pi}{T} \sin \frac{t - t_0 \pi}{T}$$

$$x = A \cos \frac{t_0 \pi}{T} \quad x' = A e^{-\alpha T} \cos \frac{t_0 + T}{T} \pi$$

$$v_x = -\alpha A \cos \frac{t_0 \pi}{T} + A e^{-\alpha T} \frac{\pi}{T} \sin \frac{t_0 \pi}{T}$$

$$v_x' = -\alpha A \cos \frac{t_0 + T}{T} \pi + A e^{-\alpha T} \frac{\pi}{T} \sin \frac{t_0 + T}{T} \pi$$

$$\frac{v_x'}{x} = -\alpha + \frac{\pi}{T} e^{-\alpha T} \tan \frac{t_0 \pi}{T}$$

$$\tan \frac{t_0 \pi}{T} = \frac{1}{\frac{\pi}{T} e^{-\alpha T}} \left(\frac{v_x'}{x} + \alpha \right)$$

$$x = A e^{+\alpha \delta} \cos \frac{\delta \pi}{T}$$

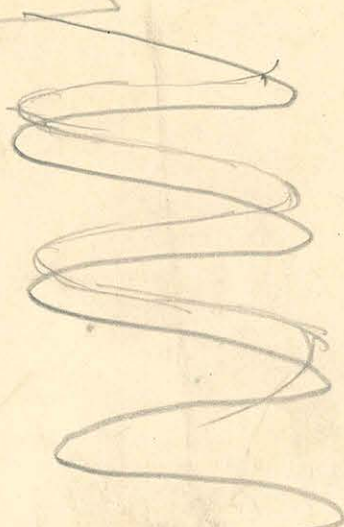
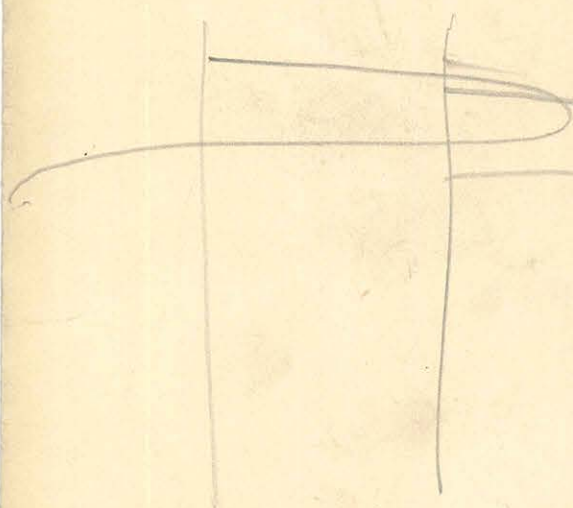
$$x' = e^{-\alpha T} \cos \frac{T \pi}{T}$$

$$x' = A e^{-\alpha(T-\delta)} \cos \frac{T-\delta \pi}{T}$$

$$x' = e^{-\alpha T} \cos \frac{T \pi}{T} x - e^{-\alpha T} A \sin \frac{T \pi}{T} \tan \frac{t_0 \pi}{T}$$

$$x' = a x + b v x$$

$$v_x' =$$



$$\frac{x - x'}{x} = 1 - e^{-\alpha T} \cos \frac{T \pi}{T} + e^{-\alpha T} \sin \frac{T \pi}{T} \tan \frac{t_0 \pi}{T}$$

$$v_1 \quad \frac{v_1}{x_1} = -\alpha + \frac{\pi}{T} \tan \frac{t_0 \pi}{T}$$

$$\tan \frac{t_0 \pi}{T} = \left(\frac{v_1}{x_1} + \alpha \right) \frac{T}{\pi}$$

18 / 34 / 19
160

$$x = A e^{-\alpha t} \cos \frac{t-t_0}{T} \pi$$

$$x' = x e^{-\alpha T} \cos \frac{T}{T} \pi - e^{-\alpha T} \sin \frac{T}{T} \pi \times \frac{t_0}{T} \pi$$

$$x' = e^{-\alpha T} \cos \frac{T}{T} \pi x - e^{-\alpha T} \sin \frac{T}{T} \pi \frac{T}{\pi} e^{-\alpha T} \left(\frac{v_x}{x} + \alpha \right) x$$

$$x' = x \left(e^{-\alpha T} \cos \frac{T}{T} \pi - \frac{T}{\pi} \alpha \sin \frac{T}{T} \pi \right) - v_x \frac{T}{\pi} \sin \frac{T}{T} \pi$$

$$v'_x = -\alpha A \cos \frac{T}{T} \pi \cos \frac{t_0}{T} \pi + \alpha A \sin \frac{T}{T} \pi \sin \frac{t_0}{T} \pi$$

$$+\frac{\pi}{T} A e^{-\alpha T} \cos \frac{T}{T} \pi \sin \frac{t_0}{T} \pi + \frac{\pi}{T} A e^{-\alpha T} \sin \frac{T}{T} \pi \cos \frac{t_0}{T} \pi$$

$$v'_x = x \left\{ -\alpha \cos \frac{T}{T} \pi + \alpha \sin \frac{T}{T} \pi \frac{t_0}{T} \pi + \frac{\pi}{T} e^{-\alpha T} \cos \frac{T}{T} \pi \frac{t_0}{T} \pi + \frac{\pi}{T} e^{-\alpha T} \sin \frac{T}{T} \pi \right\}$$

$$v'_x = x \left(-\alpha \cos \frac{T}{T} \pi + \frac{\pi}{T} e^{-\alpha T} \sin \frac{T}{T} \pi + e^{-\alpha T} \left(\alpha \sin \frac{T}{T} \pi + \frac{\pi}{T} \cos \frac{T}{T} \pi \right) \frac{t_0}{T} \pi \right)$$

$$v = -\alpha A e^{-\alpha t} \cos \frac{t-t_0}{T}$$

$$\cancel{v'}$$

$$\left\{ \begin{aligned} v'_x &= x \left(\frac{\pi}{T} e^{-\alpha T} \sin \frac{T}{T} \pi - \alpha e^{-\alpha T} \cos \frac{T}{T} \pi \right) + \frac{T}{\pi} \alpha \left(\alpha \sin \frac{T}{T} \pi + \frac{\pi}{T} \cos \frac{T}{T} \pi \right) \\ &+ v_x \frac{T}{\pi} \left(\alpha \sin \frac{T}{T} \pi + \frac{\pi}{T} \cos \frac{T}{T} \pi \right) \end{aligned} \right\}$$

$$\begin{cases} x' = ax - bv_x \\ v'_x = cx + dv_x \end{cases}$$

$$\begin{cases} A - x' = x_2 \\ -v_{x_1} = v_{x_2} \end{cases}$$

At Kaga	52° 11,5'	2,9132
Ebischumachi	52° 11,5'	2,8826
Oba	52° 1'	2,8694
Tera Domari	51° 50,2'	2,8941
Yaita	51° 41,5'	2,8805
Miyoken	51° 28,4'	2,9116
Utsunouchi	51° 19'	2,9064

	<u>Solomon's</u>	Lunar distance from i h. i h.					i	h.
Tera Domari	0,0	0	596	267,5	127,5	51° 50'	2,894	
Yaita	3,2	7,0	561	245	162,5	51° 41'	2,880	
Miyoken	11,0	24,2	475	207,5	82,5	51° 28'	2,912	
Utsunouchi	16,7	36,7	412,5	190	97,5	51° 19'	2,906	
Schizawa	25,0	55,0	321,0	162,5	85	51° 8'	2,911	
Mitschumata	30,3	66,6	263,0	240	287,5	51° 29'	2,830	
Asakari	34,8	76,6	213,0	35	-102,5	50° 17'	2,986	
Yamashiro Ka	38,0	83,6	178,0	142,5	70,0	51° 0	2,917	
Nakayama	41,0	90,2	145,0	17,5	22,5	50° 10'	2,926	
Schibutawa	47,6	104,7	72,5	27,5	32,5	50° 14'	2,922	
Takasaki	54,2	119,2	0	0	+0	50° 3'	2,945	

Ms 5106 / 23

0.27572

U, 31368

844801

43017

61523

68087

010742
0165

0,08660
45300

0, 066677
03985

0, 04846
24236

0,02223
16115-

0101872
000360

3264
15800'0

~~02072~~
~~70350~~

9,000,000

922565
117825

05896
070610

150510
55255

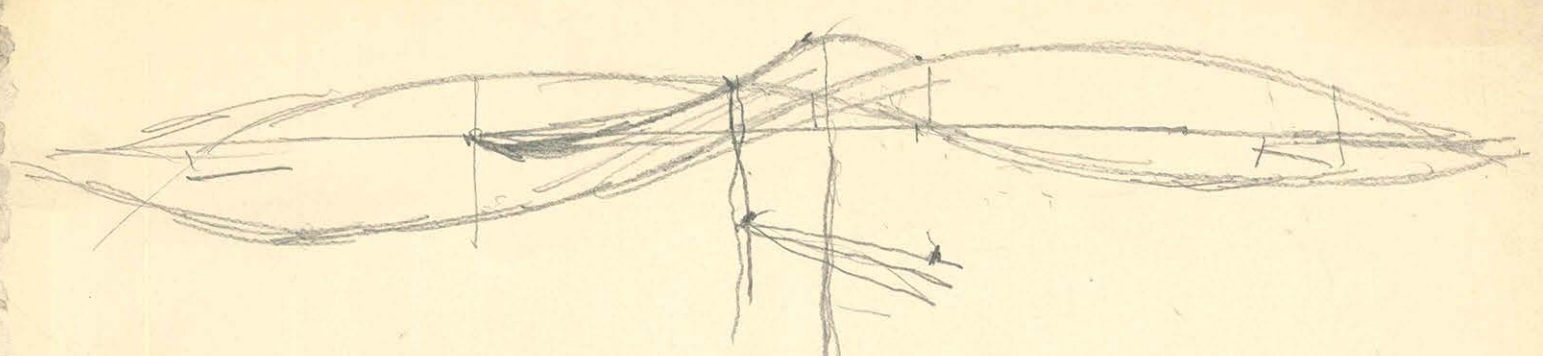
0,12884
64420

0,22565
1,17825

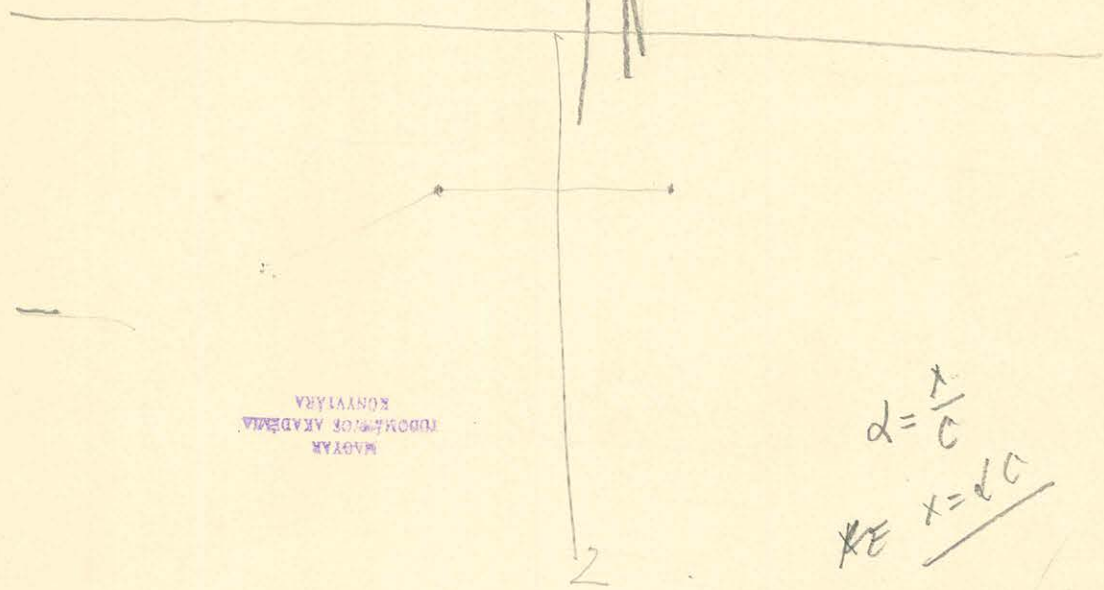
0589650
419270

0, 1505-1

12884



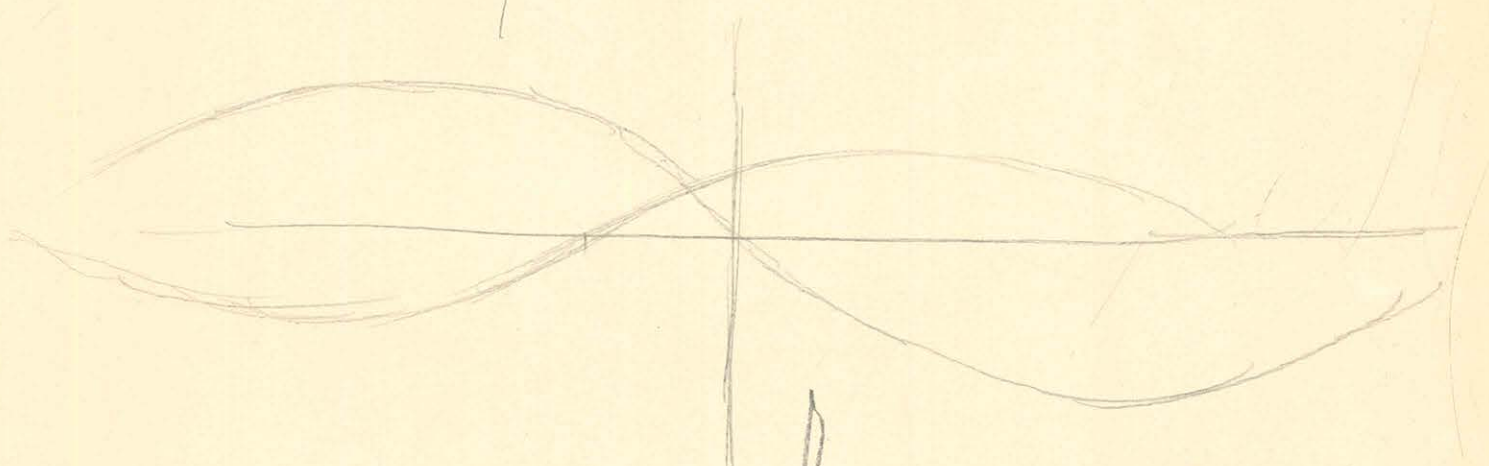
X



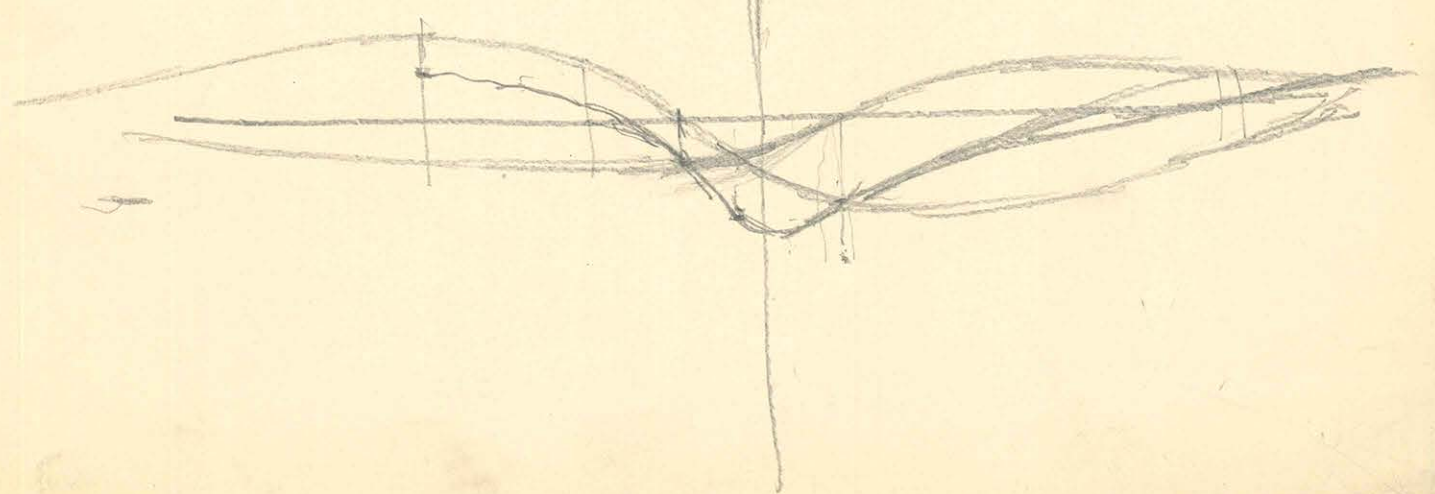
МАГЯН
ТУДОВАКОВ АКАДЕМИА
КОМУНИКА

$$\alpha = \frac{\lambda}{c}$$
$$x = \frac{d}{c}$$

KE



X



$$\frac{2 \sin \varphi l}{(p^2 + c^2 + l^2)^{\frac{3}{2}}} \cdot \frac{\sin \varphi}{\left(1 - \frac{2pl}{p^2 + c^2 + l^2} \cos \varphi\right)^{\frac{3}{2}}}$$

$$\frac{2pl}{p^2 + c^2 + l^2} = k$$

$$\frac{2 \sin \varphi l}{(p^2 + c^2 + l^2)^{\frac{3}{2}}} \cdot \frac{\sin \varphi}{(1 - k \cos \varphi)^{\frac{3}{2}}} \quad F.$$

$$F = a_1 \sin \varphi + a_2 \sin 2\varphi + a_3 \sin 3\varphi$$

$$F_{90} = 1$$

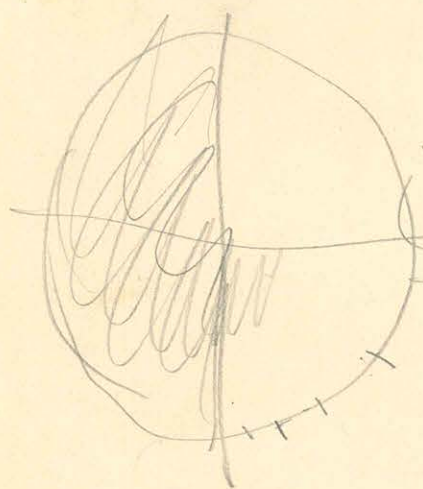
~~2\varphi = \pi~~

$$\frac{1}{r_2} \left(1 - 1 - \frac{3}{2} \frac{k}{r_2}\right)$$

$$1 = a_1$$

$$\frac{\frac{1}{r_2}}{\left(1 - \frac{k}{r_2}\right)^{\frac{3}{2}}} = \frac{a_1}{r_2} + a_2$$

$$a_2 = \frac{1}{r_2} \left(1 - \frac{1}{\left(1 - \frac{k}{r_2}\right)^{\frac{3}{2}}}\right)$$



$$\frac{\frac{1}{r_2}}{\left(1 + \frac{k}{r_2}\right)^{\frac{3}{2}}} = \frac{a_1}{r_2} - \frac{a_2}{r_2}$$

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$$\frac{1}{r_2} \left(1 + \frac{3}{2} \frac{k}{r_2}\right) = \frac{a_1}{r_2} + a_2$$

$$\frac{3}{4} k$$

$$\frac{1}{r_2} \left(1 - \frac{3}{2} \frac{k}{r_2}\right) = \frac{a_1}{r_2} - a_2$$

kezdi idő

MV 2

Törzshív 1/1000 elvise

átmenet 295 6 m 59
 átmérő 302,1 m 7 m 22,0 300 7 m 14,5
 305 " 32 0
 310 " 50 "

7 m 20
 Z
 1

11 m 0 s 335,2 x pontos

310 14 m 47,5
 305 15 m 18,5
 átmérő 302,1 m 15 m 28,5 s 300 15 m 53,0 15 m 36 49,7 9,497
 24,7
 295 16 m 33,0
 19 m 20 285,5 x

303 24 m 12 24 x 5
 átmérő 302,1 m 23 m 59 s 304 26
 305 42
 27 m 40 s 310,2 x

átmérő 302,1 m 32 m 21 s 303 31 m 58 32 m 11 s 12,2 9,497
 302 32 m 25 s
 36 m 0 s 298,0 x egyenlő 302,1

2 T { 16 m 37 s
 16 m 32,5 s. körje $T = 8 m 17 s = 497 s.$

Erőhatás

Fő kör 180°

MAOTAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA



$r = 15,1$
 $M = 13/35$

1) állás álló 294,0 mags 294,0 124,48 m
 2 állás " " 312,0 24,55
 1 állás " " 294,0 46,20 m

elvisz minden megtekint.

h = 5 h. 15 m álló 294,0 m = 291,8
 magas oda tényleg felépítve
 l = 5 h. 40 m álló 294,0 mags 291,8

Fő kör 252°

7 h. 15 m álló 294 mags 276,0

Föhr 324° 252°

mytöcken af enstaka af af alla ågra

8 h. 20 m. alla 294,0. 264,0²

Föhr 324°

11 h 45 m. alla 294,0. mögö 251,0

t = 13,3

Föhr 36°

23 min. rep. 8 h. om. alla 294,0 mögö 268,4

Föhr 108°

9 h. 30 m. alla 294,0 mögö 283,8

l = 13,3

45
10 h. 30 m. - - - 283,8
283,8

Föhr 180°

12 h. 25 m. 294 279,8

t = 14,2

Föhr 252°

3 h 55 m. 294,0 263,0

t = 14,2

Föhr 324°

5 h. 45 m. mögö 250,0

Föhr 36°

{ 8 h om. alla 294,0 mögö (tävö min.) t = }

$$\begin{aligned}
 &0,1561008 \\
 d_4 + 2d_8 + 3d_{12} + 4d_{16} &= 0,624403 \\
 d_4 - d_{12} &= 0,1659970 \\
 d_4 + d_{12} &= 0,1668262 \\
 &2328202 \\
 2d_{12} &= 0,0008292
 \end{aligned}$$

$$\begin{aligned}
 d_{12} &= 0,0004146 \\
 d_4 &= 0,1664116 \\
 d_8 &= -0,0061818 \\
 d_{16} &= 0,00018535
 \end{aligned}$$

$$\begin{array}{r}
 0,624403 \\
 12296 \\
 \hline
 0,636699
 \end{array}$$

$$\begin{array}{r}
 0,1561008 \\
 12296 \\
 \hline
 0,1683968 \\
 1676554 \\
 \hline
 0007414 \\
 00018535
 \end{array}$$

$$\begin{array}{r}
 0,1664116 \\
 0012498 \\
 \hline
 1676554
 \end{array}$$

$$\begin{array}{r}
 1664116 \\
 12438 \\
 7414 \\
 \hline
 0,1683968 \\
 12296 \\
 \hline
 1561008
 \end{array}$$

KÖNYVTÁR
 EGYETEMES AKADÉMIA
 KÖNYVTÁRA

$$2\alpha_8 = -0,012296$$

$$16\alpha_8 + 22\alpha_{16} = -0,097710$$

$$\alpha_8 + 2\alpha_{16} = -0,00610688$$

$$0,00009112$$

$$225928$$

$$\alpha_4 + 3\alpha_{12} + 5\alpha_{20} = 0,1683145$$

$$\alpha_4 - \alpha_{12} + \alpha_{20} = 0,1659970$$

$$\alpha_4 + \alpha_{12} - \alpha_{20} = 0,1668263$$

$$2328233$$

$$4\alpha_{12} + 4\alpha_{20} = 0,0023175$$

$$2\alpha_{12} - 2\alpha_{20} = 0,0008293$$

$$\alpha_{12} + \alpha_{20} = 0,00057938$$

$$\alpha_{12} - \alpha_{20} = 0,00042465$$

$$99403$$

$$0,00016473$$

$$0,00008297$$

$$\alpha_4 + 2\alpha_8 + 2\alpha_{12} + 4\alpha_{16} + 5\alpha_{20} = 0,156101$$

$$10650349$$

$$0,858851$$

$$0,084214$$

$$0,658960$$

$$12,252374$$

$$3147776$$

$$9,104598$$

MASTAN
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$$\alpha_8 = -0,006148$$

$$\alpha_{16} = +0,00002056$$

$$\alpha_4 = +0,1664117$$

$$\alpha_{12} = 0,00049702$$

$$\alpha_{20} = 0,00008227$$

$$\begin{array}{r} 1664117 \\ 0001491 \\ 0000822 \\ 0004118 \\ \hline 0,1670548 \\ 12296 \\ \hline 1547588 \end{array}$$

$$\begin{array}{r} 1664117 \\ 14911 \\ 822 \\ 4118 \\ \hline 1683968 \\ 12296 \\ \hline 156106 \end{array}$$

$$\begin{array}{r} 16 \\ 256 \\ 16 \\ \hline 1536 \\ 256 \\ \hline 4096 \end{array}$$

$$1,959272$$

$$156$$

1,8314696
 1,5555702

 7,3870398
 0,8684705

 0,4242350
 2,717911

1,8314696
 0,4444298

 6,2758994
 0,7976759
 0,3988379
 2,505347¹⁷⁴

0,1685304
 1,5555702

 5,7241006
 0,7577073
 0,3788537
 2,392510

0,1685304
 0,4444298

 4,6129602
 0,6639797
 0,7719899
 2,147782
 2,147780

3375
 4096

1950903
 8049097
 192147
 52690
 19807853
 9807853
 7071068
 6466153
 503935

$$1) = \arctan \frac{9}{\sqrt{19}} = 1,119770$$

$$2) = \arctan \frac{1}{\sqrt{19}} = 0,225511$$

$$3) = \arctan \frac{6}{\sqrt{14}} = 1,013198$$

$$4) = \arctan \frac{12}{\sqrt{26}} = 1,168992$$

$$5) = \arctan \frac{3}{4\sqrt{26}} = 0,146040$$

$$6) = \arctan \frac{3}{2\sqrt{14}} = 0,281271$$

$$7) = 0 = 0$$

$$8) = \frac{2}{\sqrt{22}} = 0,403055$$

$$9) = \frac{9}{2\sqrt{22}} = 0,764683$$

$$10) = \log \frac{\sqrt{17}}{15} \frac{2 + \sqrt{14}}{2 + \sqrt{26}} = 0,428454$$

$$11) = \log \frac{\sqrt{13}}{3} \frac{3 + 2\sqrt{2}}{3 + \sqrt{22}} = 0,123875$$

$$12) = \log \frac{\sqrt{25}}{\sqrt{13}} \frac{1 + \sqrt{14}}{1 + \sqrt{26}} = 0,075221$$

$$13) = \log \frac{\sqrt{12}}{5} \frac{2 + 3\sqrt{2}}{2 + \sqrt{22}} = 0,222505$$

$$\log \sqrt{14} = 0,573064 \quad \sqrt{14} = 3,74166$$

$$\log \sqrt{26} = 0,707487 \quad \sqrt{26} = 5,09902$$

$$\log \sqrt{2} = 0,150515 \quad \sqrt{2} = 1,41421$$

$$\log \sqrt{22} = 0,671212 \quad \sqrt{22} = 4,69042$$

$$\sqrt{18} = 4,24264$$

MASTAR
TUDOMÁNYOS AKADEMIA
KÖNYVTÁRA

1 0,954243 0,639277 0,314866 64°9'29" 1,177011 2618 141 1,119770	2 0,000000 0,639277 0,360623-1 12°55'15" 0,209440 15999 72 0,225511	3 0,778151 0,573064 0,205087 58°3'7" 1,012291 873 34 1,013198	4 1,079181 0,707487 0,371694 602066 66°58'42" 1,151917 16872 203 1,168992
5 0,477121 8° 0,707487 22' 0,769634-13" 602066 0,187574-1 0,139626 6400 14 0,146040	6 0,477121 21° 0,573064 50' 0,904057-1 0,301030 43° 0,603027-1 0,366519 14544 208 0,381271	8 0,301030 23° 0,671212 51' 0,629818-136" 0,401426 1454 175 0,403055	9 0,954243 43° 0,671212 48' 0,283031 47" 0,301030 0,982001-1 0,150492 13963 228 0,764683
0,615225 0,828767 1,443992 0,349485 0,094567 0,908422 0,186075 0,269688-1 637784-1 0,631904-1	0,556972 0,859897 1,416869 0,477121 0,939748 0,885956 0,053798 0,720766-2 637784-1 0,092982-1	0,615225 0,675920 1,291155 0,349485 0,941670 0,845027 0,096633 0,985125-2 637784-1 0,247291-1	1,013198 1,168992 0,762542 2,944732 949483 1,995249 1,529266 222505 123875 1,875746 402055 1,472691 1,995249 0,467940
$\sqrt{1+6^2-4^2} = \sqrt{14}$ 1,119770 225511 0,894259 1,788518 0,577026	$\sqrt{1+6^2-4^2} = \sqrt{14}$ 0,584160 1,42818 222505 949483	$\sqrt{1+6^2-4^2} = \sqrt{14}$ 0,403055 4,529366 1,788518	$\sqrt{1+6^2-4^2} = \sqrt{14}$ 0,403055 4,529366 1,788518

3,9601

$$\frac{2,9601 \sqrt{4,9601 \cdot 9,801 + 1}}{1,99 (4 + 2)}$$

$$\begin{array}{r} 0,645490 \\ 0,991270 \\ \hline 1,636760 \\ 4,86139 \end{array}$$

$$\frac{2,9601 \sqrt{5,86129}}{1,99 \cdot 6,86129}$$

768000

$$\begin{array}{r} 0,471206 \\ 3,84000 \end{array}$$

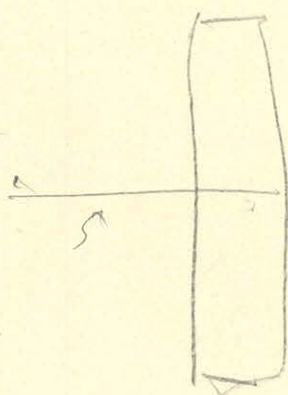
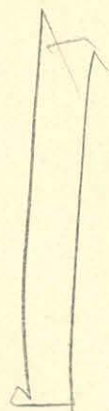
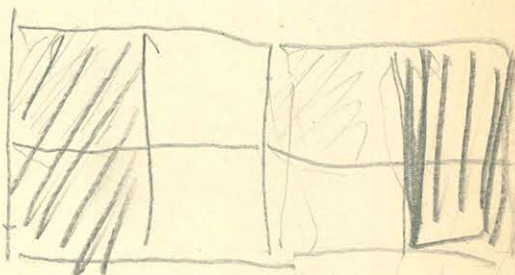
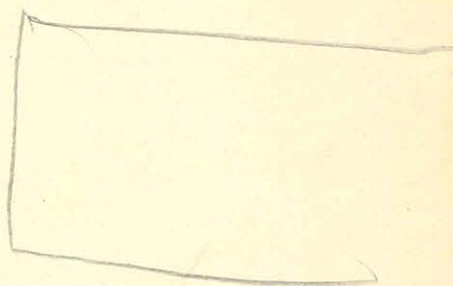
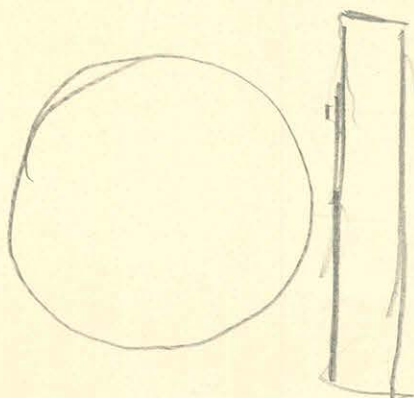
27° 41' 85"

$$\begin{array}{r} 0,855206 \\ 0,298852 \end{array}$$

$$\begin{array}{r} 471209 \\ 1,19296 \\ 170 \end{array}$$

$$\begin{array}{r} 0,556453 \\ 0,806412 \\ \hline 0,720041 \end{array}$$

$$\frac{480335}{1}$$



$$1 \ a = \frac{6}{5}$$

$$\frac{1}{10}$$

$$q = \frac{1}{50}$$

21
21
42
44

$$3,44 \sqrt{5,41.122 + 1}$$

$$2,1(12.12)$$

$$541$$

$$1082$$

$$541$$

$$65461$$

$$3,45 \sqrt{17,5461}$$

$$170922 \quad 17,54681$$

$$8,5461$$

$$170922$$

$$1791681$$

$$2754$$

$$0,5378195$$

$$0,428862$$

$$0,976687$$

$$252987$$

$$1,230668$$

$$0,722694$$

$$0,14065$$

$$0,718629$$

$$27^{\circ} 50' 14''$$

$$471229$$

$$14544$$

$$68$$

$$48,5851$$

$$27^{\circ} 56' 59''$$

$$471229$$

$$10472$$

$$286$$

$$48,1997$$

$$2,05 \quad 4,2025$$

$$3,2025 \sqrt{5,2025.1,1025 + 1}$$

$$2,05(12 + 2)$$

$$0,716212$$

$$0,042279$$

$$0,758591$$

$$3,2025 \sqrt{6,70577} \quad 0,505489$$

$$2,05 \cdot 7,70577 - \quad 828287$$

$$414194$$

$$572577$$

$$27^{\circ} 39' 35''$$

$$2,01 \quad 40401$$

$$30401 \sqrt{5,0401.1,0201 + 1}$$

$$2,01(12 + 2)$$

$$30401 \sqrt{6,14141}$$

$$2,01 \cdot 7,14141 \quad 788268$$

$$0,919683$$

$$311754$$

$$0,607929$$

$$888504$$

$$0,719425$$

$$471229$$

$$11345$$

$$169$$

$$482753$$

$$0,482888$$

$$394124$$

$$0,877022$$

$$303196$$

$$0,573826$$

$$0,852784$$

$$0,720042$$

$$27^{\circ} 41' 35''$$

$$471239$$

$$11926$$

$$140$$

$$483335$$

$$0,702429$$

$$0,008643$$

$$0,711082$$

$$5,14141$$

1226074
 172355
 11057745
 2197486

1,168992
 1,257427
 01761292
 21193721
 1122087
 2,070634

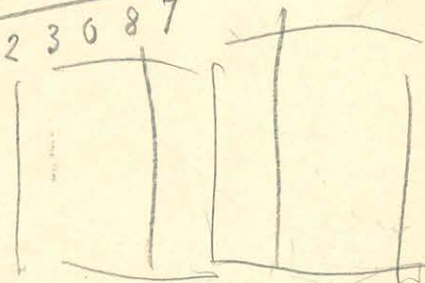
SP

0,326380
 172592
 63788

0,614115
 226280
 172592
 1123087

1,854588
 0,613248
 2,467836
 321756
 2,146080

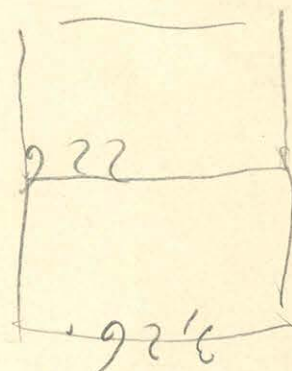
581



92'6 = 20
 45'6 = 22

177

0851
 2851
 1740
 922
 226
 1406



$$t'1 = \frac{922}{4} = 230.5$$

$$C(922) = 4$$

0.50
 24
 48/84
 17

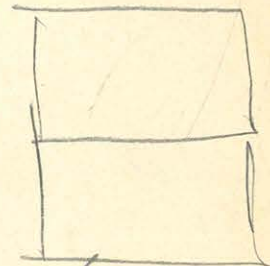
1.0

264086
 342
 2106
 9012
 6071235

270 01,50

1401710
 5048560
 9055140
 451812
 248754
 0754260
 0327619
 0416641

MAOYAN
 EDITION OF AKADAMA
 MINISTERS



014010

981256
 1-5248060
 0662701

014010
 2,61,14,70410
 1,9,572410

2+4164

2,61,14,70410
 1+180,19,081+1

19'6

$$1) \quad -\left(3-\frac{1}{n}\right)^2 0,083388 - \frac{1}{2-\frac{1}{n}} \cdot \left(1-\frac{1}{n}\right)^2 \cdot 1,277996 - 4 \cdot \frac{1}{3-\frac{1}{n}} \cdot \frac{1}{1-\frac{1}{n}}$$

$$\left(2(U_1)_{2,1-\frac{1}{n}}^{2+\frac{1}{n}}\right)_{\text{par arc}}$$

$$\left(2(U_1)_{2,1-\frac{1}{n}}^{2+\frac{1}{n}}\right)_{\text{par arc}} - \left(3+\frac{1}{n}\right)^2 0,037409 - \left(1-\frac{1}{n}\right)^2 1,405372 - 4 \cdot \frac{1}{3+\frac{1}{n}} \cdot \frac{1}{1-\frac{1}{n}}$$

$$\left(2(U_1)_{2,1+\frac{1}{n}}^{2+\frac{1}{n}}\right)_{\text{par arc}} - \left(3-\frac{1}{n}\right)^2 0,403404 - \left(1+\frac{1}{n}\right)^2 0,656166 - 4 \cdot \frac{1}{3-\frac{1}{n}} \cdot \frac{1}{1+\frac{1}{n}}$$

$$\left(2(U_1)_{2,1+\frac{1}{n}}^{2+\frac{1}{n}}\right)_{\text{par arc}} - \left(3+\frac{1}{n}\right)^2 0,199932 - \left(1+\frac{1}{n}\right)^2 0,762694 - 4 \cdot \frac{1}{3+\frac{1}{n}} \cdot \frac{1}{1+\frac{1}{n}}$$

$$\frac{1}{3-\frac{1}{n}} = 0,109413 \quad \frac{1}{3+\frac{1}{n}} = 0,127874 \quad \frac{1}{1-\frac{1}{n}} = 0,511226 \quad \frac{1}{1+\frac{1}{n}} = 0,608169$$

$$\begin{array}{r} 1,140240 \\ 0,881520 \\ 1,052736 \\ 1,051412 \text{ par arc} \\ 1,601333 + 1329 \\ 1,030229 + 23 \quad \frac{27}{1062} \\ 1,117900 \\ 10 \times 0,538015 \\ 4,908238 - 5 \\ 10 \times 0,510679 \\ 10 \times 0,780950 \\ 5,856200 \\ 10 \times 0,597767 \\ \hline 20,015807 \\ 21,846700 \\ \hline \text{Parity } 41,862507 \\ 1,207 \end{array}$$

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$$\begin{array}{r} \text{Parity} \\ \text{Parity Corr.} = 41,861205 \\ \hline 20,015807 \\ 15,621287 \\ \hline 4,394520 \end{array}$$

$$\begin{array}{r} 0,438799 \\ 0,118214 \\ 0,514097 \\ 0,120574 \\ 2,120830 \\ 1,912213 \\ 2,747582 + 8 \\ 2,222650 + 5 \\ 5,426728 \end{array}$$

$$\begin{array}{r} 0,109413 \\ 0,127874 \\ 0,511226 \\ 0,608169 \\ \hline 1,356682 \\ 5,426728 \end{array}$$

$$\begin{array}{r} 41,861205 \\ 15,621300 \\ \hline 26,239905 \\ 523943 \\ 26,196559976 \end{array}$$

$$\begin{array}{r} 5,380150 \\ 5,1106789 \\ 7,809500 \\ 5,977672 \\ \hline 24,274111 \end{array}$$

$$\begin{array}{r} 24,274111 \\ 24,27411 \\ \hline 21,846700 \end{array}$$

Expr. loka Corrigh =

$$\begin{array}{r} 41,862507 \\ 15,621287 \\ \hline 26,241220 \end{array}$$

$$8d_4 + 16d_8 = -0,172992$$

$$x_1 + 2d_8 = -0,021789$$

$$\begin{array}{r} 2215 \\ \hline 000036 \end{array}$$

$$\cancel{0,00068}$$

$$0,00018$$

MAJAK
JUDOMETRO AKADAMA
KONVITARA

$$\begin{array}{r}
 1,642090 \\
 0,215297 \\
 \underline{140722} \\
 0,356119
 \end{array}
 \qquad
 \begin{array}{r}
 2,091993 \\
 0,378759 \\
 \underline{790508-1} \\
 0,169267
 \end{array}$$

$$\begin{array}{r}
 0,010424-2 \\
 \underline{5927.16} \\
 0,904150-2 \\
 0,231531 \\
 \underline{462062}
 \end{array}$$

$$\begin{array}{r}
 0,962209-2 \\
 \underline{317252} \\
 0,280561-1
 \end{array}$$

$$0,592335$$

$$\begin{array}{r}
 0,772568-1 \\
 \underline{317252} \\
 0,089820
 \end{array}$$

$$\begin{array}{r}
 0,522773-1 \\
 \underline{790508-1} \\
 0,324281-1
 \end{array}$$

$$0,222129$$

$$\begin{array}{r}
 0,346605-1 \\
 \underline{592716} \\
 0,940321-1
 \end{array}$$

$$\begin{array}{r}
 0,421613-1 \\
 \underline{140722} \\
 0,572335
 \end{array}$$

$$\begin{array}{r}
 42701 \\
 \underline{28787} \\
 0,003514 \\
 - 0,007028
 \end{array}$$

$$\begin{array}{r}
 0,965615-1 \\
 \underline{184098} \\
 0,149713
 \end{array}$$

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$$\begin{array}{r}
 0,582840-1 \\
 \underline{0,291157-1} \\
 0,923997-2
 \end{array}$$

$$\begin{array}{r}
 141160 \\
 0,08295 \\
 1,32765
 \end{array}$$

$$\begin{array}{r}
 847 \\
 0,707 \\
 \underline{5929} \\
 59290 \\
 \underline{598829}
 \end{array}$$

000

622

22 1/2

1,91181
4,31027
6,22208

0,38708
4,31027
4,69135

0,793926
0,671298
0,122638

0,061319

1,91181
15,39690
17,30871

0,38708
15,39690
15,77798

1,238265
1,198052
0,040213

0,020107

15,39690
0,38108
15,77798

4,31027
0,38108
4,69135

1,198052
0,671298
0,526754

0,263377

~~4,31027~~
~~0,38108~~
~~15,39690~~
~~1,91181~~
~~17,30871~~

4,31027
1,91181
6,22208

1,238265
0,793926
0,444329

0,222165

MAJAN
KUDUS
KABUPATEN
SONYAKARA

4,94811
5,19718

0,694429
0,715767
0,978672
0,61319
0,039991

0,61062-2
0,62216
0,963329-2

0,964178-2

5,91181
4,38108

6,44724
6,61614

0,809274
0,820605
0,988769-1
20107
0,008876

0,948217-3
0,62216
0,310433-2

4,94811
6,44724

0,694429
0,809274
0,885065-1
263377
0,148442

0,171557-1
0,62216
0,533773-1

5,19718
6,61614

0,715767
0,820605
0,895162-1
222165
0,117327

0,069298-1
0,62216
0,431614-1

0,771721
0,641581
0,130140

0,065070

2,076122
2,94811
5,02423

2,076122
3,19718
5,27330

0,701070
0,722082
0,978988-1
65070
0,044058

0,644025-2
0,62216
0,066733-1

0,606241

5,91181
4,38108

0,065070

3,923878
4,44724
8,37112

3,923878
4,61614
8,54002

0,922784
0,921459
0,991325-1
65070
0,056895

0,751841-2
0,62216
0,113841-1

0,110457

19,39690
8,31027

1,287722
0,919615
0,368118

0,184059

0,617017
2,94811
3,56543

0,617017
4,44724
5,06456

0,552112
0,704542
0,847570-1
134059
0,981629-1

-0,18071
0,264122-2
0,62216
0,626349-2

0,134059

1,382682
3,19718
4,57986

1,382682
4,61614
5,99882

0,660852
0,778066
0,882786-1
104059
0,016845

0,226471-2
0,62216
0,588687-2

0,044108
56445
100550
450
220

$$F = d_1 \sin 45^\circ + d_4 \sin 45^\circ + d_6 \sin 60^\circ$$

$$\frac{d_2}{2} \sin 45^\circ + \frac{1}{4} d_4 \sin 45^\circ + \frac{1}{6} d_6 \sin 60^\circ$$

$$0^\circ \text{ ra} \quad \frac{d_2}{2} + \frac{d_4}{4} + \frac{d_6}{6}$$

$$45^\circ \text{ ra} \quad -\frac{d_4}{4}$$

$$90^\circ \text{ ra} \quad -\frac{d_2}{2} + \frac{d_4}{4} + \frac{d_6}{6}$$

$$-\frac{d_2}{2} - \frac{d_4}{2} - \frac{d_6}{6}$$

$$\begin{array}{r} 0,423225 \\ 11000 \\ \hline 0,412192 \\ 428505 \\ \hline 005498 \\ 403943 \\ \hline \end{array}$$

$$-\frac{d_2}{2} + \frac{d_4}{4} - \frac{d_6}{6}$$

$$\begin{array}{r} 0,070875 \\ 000158 \\ \hline 11633 \end{array}$$

$$\begin{array}{r} 0,423225 \\ 005498 \\ \hline 0,428613 \\ 158 \\ \hline 428505 \end{array}$$

$$(846128)$$

$$-d_2 - \frac{d_6}{3} - \frac{d_4}{4}$$

$$\begin{array}{r} 0,84645 \\ 31 \\ \hline 84613 \end{array}$$

$$\sin 22\frac{1}{2} = 0,382683 \quad a = 3 \quad b = 1 \quad c = 2 \quad l = 1$$

$$\cos 22\frac{1}{2} = 0,923878 \quad \varphi = 22^{\circ}30'$$

Quadrat.

$$1. a + l \sin \varphi = 3,923878 \quad - 15,39690$$

$$2. a - l \sin \varphi = 2,076122 \quad - 4,31027$$

$$3. b + l \sin \varphi = 1,382683 \quad - 1,91181$$

$$4. b - l \sin \varphi = 0,617317 \quad - 0,38108$$

$$1. 0,592716$$

$$2. 0,317252$$

$$3. 0,142722$$

$$4. 0,790508 - 1$$

$$\sqrt{(a+l \sin \varphi)^2 + (b+l \sin \varphi)^2 + 4} = 4,61614$$

$$\sqrt{(a+l \sin \varphi)^2 + (b-l \sin \varphi)^2 + 4} = 4,44724$$

$$\sqrt{(a-l \sin \varphi)^2 + (b+l \sin \varphi)^2 + 4} = 3,19718$$

$$\sqrt{(a-l \sin \varphi)^2 + (b-l \sin \varphi)^2 + 4} = 2,94811$$

$$11_1 = 0,664279$$

$$11_2 = 0,648091$$

$$11_3 = 0,504768$$

$$11_4 = 0,469544$$

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IMPERIAL ACADEMY OF SCIENCES

$$\begin{array}{r} 0,317252 \\ 301030 \quad 40^{\circ} \\ \hline 0,618282 \quad 12' \\ 0,140722 \\ \hline 0,477560 \quad 23'' \\ 0,504768 \\ \hline 0,972792 - 1 \\ 0,750492 \\ 3491 \\ 712 \\ \hline 0,754095 \end{array}$$

$$\begin{array}{r} 0,592716 \\ 301030 \quad 50^{\circ} \\ \hline 0,894746 \\ 0,140722 \quad 52' \\ \hline 0,754024 \quad 42'' \\ 0,664279 \\ \hline 0,089745 \\ 0,872665 \\ 15126 \\ 204 \\ \hline 0,887995 \end{array}$$

$$\begin{array}{r} 0,317252 \\ 301030 \quad 66^{\circ} \\ \hline 0,618282 \quad 19' \\ 0,790508 - 1 \\ \hline 0,827774 \quad 56'' \\ 0,469544 \\ \hline 0,358230 \\ 1,151917 \\ 5527 \\ 271 \\ \hline 1,157715 \end{array}$$

$$\begin{array}{r} 0,592716 \\ 301030 \quad 70^{\circ} \\ \hline 0,894746 \quad 40' \\ 0,790508 - 1 \quad 8'' \\ \hline 1,104238 \\ 0,648091 \\ \hline 0,456147 \\ 1,221731 \\ 12508 \\ 39 \\ \hline 1,204278 \end{array}$$

$$\begin{array}{r} 0,140722 \\ 301030 \\ \hline 0,441752 \\ 0,593716 \\ \hline 0,848036 - 1 \\ 0,664279 \\ \hline 0,183757 - 1 \\ 8^{\circ}40'49'' \\ 0,129623 \\ 11625 \\ 238 \\ \hline 0,151496 \end{array}$$

$$\begin{array}{r} 0,790508 - 1 \\ 301030 \\ \hline 0,091538 \\ 0,593716 \\ \hline 0,497822 - 1 \\ 0,648091 \\ \hline 0,849731 - 2 \\ 4^{\circ}2'49'' \\ 0,069813 \\ 582 \\ 238 \\ \hline 0,070633 \end{array}$$

$$\begin{array}{r} 0,140722 \\ 301030 \\ \hline 0,441752 \\ 0,317252 \\ \hline 0,124500 \\ 0,504768 \\ \hline 0,619732 - 1 \\ 22^{\circ}37'2'' \\ 0,383972 \\ 9308 \\ 10 \\ \hline 0,393290 \\ 1454 \end{array}$$

$$\begin{array}{r} 0,790508 - 1 \\ 301030 \\ \hline 0,091538 \\ 0,317252 \\ \hline 0,774286 - 1 \\ 0,469544 \\ \hline 0,304742 - 1 \\ 11^{\circ}24'16'' \\ 0,119986 \\ 6981 \\ 78 \\ \hline 0,199045 \\ 394744 \\ \hline 593789 \end{array}$$

2

$$\begin{array}{r} \text{Jan. 1.} \\ 0,394744 \\ \hline 3290 \\ 0,001454 \\ 0,000727 \end{array}$$

$$\begin{array}{r} 141160 \\ 26018 \\ \hline 7,15142 \end{array}$$

$$\begin{array}{r} 0,57571 \\ 0,57607 \\ \hline 57571 \end{array}$$

$$\begin{array}{r} 2,076122 \\ 0,0005 \\ \hline 57571 \end{array}$$

$$0,382683, 0,000727, 2,076122$$

11-11 0770.

3,701314
6,850348
10,551662

6,850348
005794
6,856142

1,023321
0,836080
0,187241
0,093621

0,723856
0,764524
0,959332-1
0,093621
0,052953

0,727891-2
0,062216
0,086107-1

0,886565
0,602688
1,489253
~~0,744627~~
0,141939

3,294869
2,617317
5,912186
2,617317
3,814664
6,431981

0,721748
0,808345
0,963403-1
141929
0,105342

0,022601-1
0,062216
0,084817-1

3,701314
11,442544
15,143858

11,442544
005794
11,448338

1,180237
0,058742
0,121494
0,060747

0,772087
0,804505
0,968582-1
0,060747
0,029329

0,467292-2
0,062216
0,829513-2

892911
 $\frac{1}{2}$ 0,283877
0,141939

3,282682
3,920426
0,076120
7,313119
3,282682
4,375270
7,758053

0,864103
0,889752
0,974350-1
141929
0,116289

0,065528-1
0,062216
0,084817-1

11,442544
005794
11,448338

0,005794
6,850348
6,856142

0,058742
0,836080
0,222663
0,111332

0,723856
0,772087
0,950769-1
111222
0,062101

0,792099-2
0,062216
0,155315-1

1,188719
1,035444
0,153275
0,076638

3,294869
0,076120
3,370989
0,076120
3,930426
4,006556

0,527758
0,602772
0,924986-1
~~141929~~
76628
0,001624

0,210586-3
0,062216
0,572802-3

11,442544
3,701314
15,143858

3,701314
6,850348
10,551662

1,180237
1,023321
0,156916
0,078458

0,764524
0,804505
0,960019-1
0,078458
0,038477

0,585201-2
0,062216
0,947417-2

0,076638

3,814664
1,923880
5,738544
1,923880
4,375270
6,299250

0,758801
0,799289
0,959512-1
~~141929~~
76638
0,036150

0,558108-2
0,062216
0,920224-2

a=3 b=2 c=2 d=1 II-II

2,9142126
5,2573592
 8,1715728

 5,2573592
0,0857864
 5,3431456

 0,912306
0,127797
 0,184509

 0,092255

 0,831693
0,852933
 0,977760-1
0,92255
 0,070015
 0,845191-2
0,62216
 0,207407-1
0,161226

2,9142126
13,7426408
 16,6568544

 13,7426408
0,0857864
 13,8284272

~~2,464521~~
~~1,138070~~
 1,221593
1,140773
 0,080820
 0,040410

 0,890863
0,906619
 0,984244-1
0,840410
 0,024654
 0,291887-2
0,62216
 0,754103-2
0,056768

13,7426408
0,0857864
 13,8284272

 0,0857864
5,2573592
 5,3431456

 -1,140773
0,727797
 0,412976

 0,206488

 0,831693
0,890863
 0,940830-1
0,206488
 0,147318
 0,168256-1
0,62216
 0,530472-1
0,339212

13,7426408
2,9142126
 16,6568544

 2,9142126
5,2573592
 8,1715728

 -1,221593
0,912306
 0,309287

 0,154644

 0,852933
0,906619
 0,947314-1
0,154644
 0,101958
 0,008421-1
0,62216
 0,270637-1
0,234767

1,076065
0,958362
 0,117703
 0,058852

 3,7872344
2,2928932
 6,0801276

 2,2928932
4,4438600
 6,4367532

 0,783913
0,808667
 0,975246-1
0,58852
 0,034098

 0,522729-2
0,62216
 0,894945-2
0,0785726

III-III

 4,7779110
3,7071068
 8,4850178

 3,7071068
5,0652594
 8,7723662

 0,928653
0,943116
 0,985537-1
0,58852
 0,044389

 0,647275-2
0,62216
 0,009491-1
0,102210

1,356840
1,154040
 0,202800
 0,101400

 3,7872344
0,2928932
 4,0801276

 0,2928932
4,7779110
 5,0708042

 0,610674
0,705076
 0,965598-1
0,101400
 0,06998

 0,844574-3
0,62216
 0,207190-2
0,0161135

4,1438600
1,7071068
 5,8509668

 1,7071068
5,0652594
 6,7723662

 0,767228
0,830734
 0,936494-1
0,101400
 0,037894

 0,578570-2
0,62216
 0,940786-2
0,0872542

$$F_{45} \quad a=2 \quad b=1 \quad c=2 \quad l=1$$

$$\sin \varphi = \sin \varphi = 0,7071068$$

$$\log \sin \varphi = \log \sin \varphi = 0,8494850 - 1$$

$$a + l \sin \varphi = 3,7071068 \quad (a + l \sin \varphi)^2 = 13,7426408$$

$$\sqrt{(a + l \sin \varphi)^2 + (b + l \sin \varphi)^2 + c^2} = 5,0652594$$

$$a - l \sin \varphi = 2,2928932 \quad (a - l \sin \varphi)^2 = 5,2573592$$

$$\sqrt{(a - l \sin \varphi)^2 + (b - l \sin \varphi)^2 + c^2} = 4,7779110$$

$$b + l \sin \varphi = 1,7071068 \quad (b + l \sin \varphi)^2 = 2,9142136$$

$$\sqrt{(a - l \sin \varphi)^2 + (b + l \sin \varphi)^2 + c^2} = 4,1438609$$

$$b - l \sin \varphi = 0,2928932 \quad (b - l \sin \varphi)^2 = 0,0857864$$

$$\sqrt{(a - l \sin \varphi)^2 + (b - l \sin \varphi)^2 + c^2} = 3,7872344$$

$$\log (a + l \sin \varphi) = 0,569035$$

$$\log \sqrt{(a + l \sin \varphi)^2 + (b + l \sin \varphi)^2 + c^2} = 0,7046017$$

$$\log (a - l \sin \varphi) = 0,260384$$

$$\log \sqrt{(a - l \sin \varphi)^2 + (b - l \sin \varphi)^2 + c^2} = 0,6792380$$

$$\log (b + l \sin \varphi) = 0,232261$$

$$\log \sqrt{(a - l \sin \varphi)^2 + (b + l \sin \varphi)^2 + c^2} = 0,6174051$$

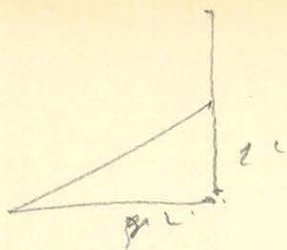
$$\log (b - l \sin \varphi) = 0,466710 - 1$$

$$\log \sqrt{(a - l \sin \varphi)^2 + (b - l \sin \varphi)^2 + c^2} = 0,5783222$$

$\begin{array}{r} 0,4771213 \\ 0,360384 \\ \hline 0,837505 \\ 0,232261 \\ \hline 0,605244 \\ 617405 \\ \hline 0,987839 - 1 \\ 44^\circ 11' 52'' \\ 0,7679449 \\ 31998 \\ 2545 \\ \hline 0,7713992 \end{array}$	$\begin{array}{r} 0,4771213 \\ 0,569035 \\ \hline 1,046156 \\ 0,232261 \\ \hline 0,813895 \\ 0,1704602 \\ \hline 0,109293 \\ 52^\circ 8' 4'' \\ 0,9075712 \\ 23271 \\ 194 \\ \hline 0,9099177 \end{array}$	$\begin{array}{r} 0,4771213 \\ 0,360384 \\ \hline 0,837505 \\ 0,466710 - 1 \\ \hline 1,370795 \\ 0,578322 \\ \hline 0,792473 \\ 80^\circ 50' 22'' \\ 1,3962624 \\ 145444 \\ 1067 \\ \hline 1,4109145 \end{array}$	$\begin{array}{r} 0,4771213 \\ 0,569035 \\ \hline 1,046156 \\ 0,466710 - 1 \\ \hline 1,579446 \\ 0,679238 \\ \hline 0,900208 \\ 82^\circ 49' 41'' \\ 1,4011700 \\ 142525 \\ 1988 \\ \hline 1,4456223 \end{array}$
$\begin{array}{r} 0,4771213 \\ 0,232261 \\ \hline 0,709382 \\ 0,569035 \\ \hline 0,140357 \\ 0,704602 \\ \hline 0,435755 - 1 \\ 15^\circ 15' 22'' \\ 0,2617994 \\ 43633 \\ 1067 \\ \hline 0,2662694 \end{array}$	$\begin{array}{r} 0,4771213 \\ 0,466710 - 1 \\ \hline 0,943831 - 1 \\ 0,569035 \\ \hline 0,374796 - 1 \\ 0,679228 \\ \hline 0,695558 - 2 \\ 2^\circ 50' 24'' \\ 0,0349066 \\ 145444 \\ 1164 \\ \hline 0,0495674 \end{array}$	$\begin{array}{r} 0,4771213 \\ 0,232261 \\ \hline 0,709382 \\ 0,360384 \\ \hline 0,348998 \\ 0,617405 \\ \hline 0,731593 - 1 \\ 28^\circ 19' 30'' \\ 0,4886922 \\ 55269 \\ 1454 \\ \hline 0,4943645 \end{array}$	$\begin{array}{r} 0,4771213 \\ 0,466710 - 1 \\ \hline 0,943831 - 1 \\ 0,360384 \\ \hline 0,580447 - 1 \\ 0,578322 \\ \hline 0,005125 - 1 \\ 5^\circ 46' 40'' \\ 0,0872665 \\ 133809 \\ 1963 \\ \hline 0,1008437 \end{array}$

$$F_{45} = 0,897848$$

$$\frac{q dl \cdot r}{(r^2 + l^2)^{\frac{3}{2}}}$$



$$\int \frac{r q dl}{(r^2 + l^2)^{\frac{3}{2}}} = r q \int \frac{dl}{r^2 \sqrt{r^2 + l^2}}$$

$$\frac{2 q c}{r \sqrt{r^2 + c^2}}$$

$$\begin{array}{r} 414775 \\ 414514 \end{array}$$

$$\frac{2 q c}{r \sqrt{r^2 + c^2}}$$

$$\begin{array}{r} 0000265 \\ 00006625 \\ 10664005 \\ 0,10657680 \end{array}$$

$$-\frac{2 q c}{r^2 (r^2 + c^2)} \left(\sqrt{r^2 + c^2} + \frac{r^2}{\sqrt{r^2 + c^2}} \right)$$

$$-\frac{2 q c (r^2 + c^2)}{r^2 (r^2 + c^2)^{\frac{3}{2}}}$$

$$\frac{1}{2} + 2/5 \frac{1}{2} \frac{c}{\sqrt{2} \sqrt{26^2 + c^2}} \cdot \frac{1}{6 \sqrt{2}}$$

$$\begin{array}{r} 10010 \\ 01010 \\ 2010 \end{array} \quad \begin{array}{l} l_c - \\ l_c + \end{array}$$

$$+ 10 \frac{1}{2} \frac{c}{26^2 \sqrt{26^2 + c^2}}$$

$$F_{\text{net}} = d_y \sin \gamma \cdot d \cdot dl$$

$$\frac{4 \sqrt{2} \cdot r^2}{12} K$$

$$V_{\text{II}} - V_{\text{I}} = - \frac{q_y}{4} \int_0^{\frac{\pi}{4}} \cos \gamma d\gamma = \frac{q_y}{2}$$

$$\begin{array}{r} 00599308 \\ 59916 \\ 0,0426175 \\ 414514 \\ 6244000 \\ 665898 \end{array}$$

$$486859910$$

$$\begin{array}{r} 866515 \\ 753992 \end{array}$$

$$\begin{array}{r} 91 \\ 96 \\ 91 \end{array}$$

$$d^4/dx^4 = -\frac{1}{8} 10 x^4 N + 10 \frac{d^4}{dx^4} \left[\dots \right]$$

$$= -\frac{1}{12} x^4 N + \frac{1}{8} \left[\dots \right]$$

$$g^2 = 6.$$

46²

$$\frac{4+a^2}{2(2+a^2)} + \frac{1}{2} = \frac{1}{2} \left(\frac{4+a^2+2+a^2}{(2+a^2)} \right) = \frac{2}{2} \frac{3+a^2}{2+a^2}$$

0,389075 600000,

$$\sqrt{6} = 2,449490$$

146,9694

7

$$58,78776$$

$$\left[-\frac{1}{12} \frac{2}{10\sqrt{6}} \left\{ 3 - \frac{1}{6} - 2 \frac{49}{10} \right\} + \frac{1}{8} \frac{2}{\sqrt{6}} \frac{7}{6} \right]$$

$$\begin{array}{r} 9,8 \\ 0,16666666 \\ \hline 9,9666667 \\ 6,96666600 \\ 0,0 \end{array}$$

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$$\begin{array}{r} 0,04740216 \\ 1190724 \\ \hline 0,1664746 \end{array}$$

0,875061

0,875061
605427

0,269634
61° 44' 33½"

4,021189

1,021189
673665

0,347524
65° 48' 21"

0,477121

0,544068

0,933053 -1
672665

0,259388 -1
10° 17' 56½"

0,477121

0,597940

0,079181
605427

0,473754 -1
16° 24' 38½"

3,585922

1,776027

1,809885

1,769172

3,579057

0,176091

0,477121

0,698970 -1
630632

0,068338 -1
6° 40' 32"

0,1047198

116255

1551

0,1165104

0,652213

0,477121

0,176092

653213

0,522879 -1
18° 26' 6"

0,954243

0,176091

0,778152

652213

0,124929
52° 7' 48½"

0,954243

0,698970 -1

0,255270

630622

0,624641
26° 28' 56"

$$1537:167,7 = 0,913$$

$$\begin{array}{r} 2180 \\ = 4930 \end{array}$$

$$153,6:1,913 = 80,0$$

$$= 0600$$

$$231,3$$

$$45:78 = 0,019293$$

$$\begin{array}{r} 720 \\ 180 \\ 340 \\ 280 \end{array}$$

$$1495:78 = 0,019166$$

$$\begin{array}{r} 715 \\ 130 \\ 520 \\ 520 \end{array}$$

$$18,7:872 = 0,021445$$

$$\begin{array}{r} 1260 \\ 3880 \\ 3920 \\ 4320 \end{array}$$

$$6,8:78 = 0,008718$$

$$\begin{array}{r} 560 \\ 140 \\ 620 \end{array}$$

$$1,315:78 = 0,016$$

$$\begin{array}{r} 535 \\ 670 \end{array}$$

$$125,8$$

$$345,5:201,1:219,7 = 0,915$$

$$144,4 \cdot \begin{array}{r} 2320 \\ 11230 \end{array}$$

$$201,1:1,915 = 105,0$$

$$\begin{array}{r} 09600 \\ = 025 \end{array}$$

$$\begin{array}{r} 345,5 \\ 240,5 \end{array}$$

$$9/5:1000 = 0,009500$$

$$\left. \begin{array}{l} 333,6 \\ 126,4 \\ 315,3 \end{array} \right\}$$

$$1889:2072 = 0,912$$

$$\begin{array}{r} 2420 \\ 3480 \end{array}$$

$$126,4 \cdot 1889:1912 = 98,8$$

$$\begin{array}{r} 16820 \\ 15240 \\ 225,2 \end{array}$$

$$2,48:105 = 0,023619$$

$$\begin{array}{r} 880 \\ 650 \\ 200 \\ 950 \end{array}$$

$$\begin{array}{r} 382,1 \\ 5,9 \\ 326,2 \end{array}$$

$$1882:2067 = 0,91$$

$$\begin{array}{r} 2140 \\ 1030 \end{array}$$

$$108,4 \cdot 1882:191 = 98,5$$

$$\begin{array}{r} 1630 \\ 1020 \\ 2072 \end{array}$$

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$$1251:1365 = 0,916$$

$$\begin{array}{r} 2250 \\ 8850 \end{array}$$

$$294,8 \cdot 1251:1916 = 65,3$$

$$\begin{array}{r} 10140 \\ 5600 \\ 229,5 \end{array}$$

$$1893:2064 = 0,917$$

$$\begin{array}{r} 3540 \\ 14760 \end{array}$$

$$169,8 \cdot 1893:1912 = 98,7$$

$$\begin{array}{r} 16720 \\ 14340 \\ 268,5 \end{array}$$

$$1905:2083 = 0,915$$

$$\begin{array}{r} 3030 \\ 9470 \end{array}$$

$$169,7 \cdot 1905:1915 = 99,5$$

$$\begin{array}{r} 18150 \\ 9150 \\ 268,2 \end{array}$$

$$1,815:78 = 0,023269$$

$$\begin{array}{r} 250 \\ 210 \\ 540 \\ 720 \end{array}$$

$$1,315:78 = 0,016859$$

$$\begin{array}{r} 535 \\ 670 \\ 460 \\ 200 \end{array}$$

$$23:78 = 0,02948$$

$$\begin{array}{r} 740 \\ 380 \\ 680 \\ 560 \end{array}$$

$$1385:78 = 0,017756$$

$$\begin{array}{r} 605 \\ 590 \\ 440 \\ 500 \end{array}$$

$$172:78 = 0,022051$$

$$\begin{array}{r} 160 \\ 400 \\ 100 \end{array}$$

$$\frac{A}{r^3} + \frac{B}{r^4} = I$$

$$\frac{A}{r^3} + \frac{B}{r^4} = II$$

$$\left(\frac{B(r^{13} - r^3)}{r^4} \right) = (r^{13}I - r^3II)$$

b

$$B = \frac{r^{17} - r^7}{r^{14}r^4}$$

$$B = \frac{r^{14}r^4}{r^{17} - r^7} (r^{13}I - r^3II)$$

$$\frac{1269 : 1498 = 0,914}{\begin{array}{r} 2080 \\ 5820 \end{array}}$$

$$\frac{128,8 : 142 = 0,907}{\begin{array}{r} 1000 \\ 1288 : 1907 = 67,5 \\ 14380 \\ 10310 \end{array}}$$

$$A + \frac{B}{r} = I r^3$$

$$A + \frac{B}{r'} = II r'^3$$

$$\frac{r^{13}r^3}{r^4} - \frac{r^3}{r^{14}}$$

$$B = \frac{\frac{I r^3}{\frac{1}{r} - \frac{1}{r'}}}{\frac{r r'}{r' - r}} = \frac{r r'}{r' - r} (I r^3 - II r'^3)$$

$$I \quad 15,05$$

$$II \quad 38,1$$

$$III \quad 90,75$$

r.d''

4.

2

1815
9075

$$7^3 = (257)^3 = 15813257$$

$$7^{13} = (201)^3 = 8120601$$

$$7^{113} = (167)^3 = 3442951$$

$$I_7^3 = 15813257.14471$$

$$\begin{array}{r} 63253004 \\ 63253004 \\ 110692757 \\ 15813251 \\ \hline 22883355.52.21 \end{array}$$

$$II_7^3 = 8120601.00$$

$$\begin{array}{r} 64366300 \\ \hline 24361803 \\ 4872361 \\ 487236 \\ 24362 \\ 3248 \\ 487 \\ \hline 29749497 \end{array}$$

$$III_7^3 = 3442951.00$$

$$\begin{array}{r} 69527800 \\ \hline 27593608 \\ 2410066 \\ 68859 \\ 17215 \\ 3098 \\ 206 \\ \hline 300430.52 \end{array}$$

$$\begin{array}{r} 4173281 \\ 695278 \\ \hline 33386248 \\ 2921297 \\ 83466 \\ 20866 \\ 3756 \\ 250 \\ \hline 36415883 \end{array}$$

$$0.67:1128 = 9.005471$$

$$\begin{array}{r} 550 \\ 820 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 297495 \\ 228833 \\ \hline 68662 \end{array}$$

$$\begin{array}{r} 257.201 \\ 5020 \\ \hline 50451:50 \\ 1009 \end{array}$$

$$\begin{array}{r} 68662.1009 \\ 617958 \\ \hline 692799.58 = B \end{array}$$

$$\begin{array}{r} 167.201 \\ 3220 \\ \hline 32361: \\ 809 \end{array}$$

$$\begin{array}{r} 364159.809 \\ 3277431 \\ 2913222 \\ \hline 294604631 \end{array}$$

$$\begin{array}{r} 364158.9 \\ 2974951 \\ \hline 66663.9 \\ 66664.809 \\ 533312 \\ 599976 \\ \hline 539311.76 = B \end{array}$$

$$37.7:1180 = 0.031949$$

$$\begin{array}{r} 2300 \\ 11200 \\ \hline = 5800 \\ 10800 \\ \hline 1360 \end{array}$$

$$37.5:1128 = 9.032137$$

$$\begin{array}{r} 280 \\ 160 \\ \hline 430 \\ 790 \end{array}$$

$$25.5:1128 = 9.021795$$

$$\begin{array}{r} 210 \\ 930 \\ 1810 \\ \hline 520 \end{array}$$

$$37.05:117 = 9.031667$$

$$\begin{array}{r} 195 \\ 780 \\ \hline 780 \end{array}$$

$$1581325100 \quad 0,014471$$

$$\begin{array}{r} 15813251 \\ 6325300 \\ 632530 \\ 110692 \\ 1581 \end{array}$$

$$22883354 = 1,3$$

$$\begin{array}{r} 473281 \\ 95278 \end{array}$$

$$\begin{array}{r} 33386248 \\ 2921297 \\ 83466 \\ 20866 \\ 3756 \end{array}$$

$$\begin{array}{r} 36415631 = 11,3 \\ 297494,9 \\ 6666114 \end{array}$$

$$\begin{array}{r} 161.201 \\ 3220 \\ 32361 : 4 \\ 809 \end{array}$$

$$\begin{array}{r} 0122 \\ 0454 \\ 0135 \\ 0211 \\ 0131 \\ -580 \end{array}$$

$$\begin{array}{r} 66661.809 \\ 599949 \\ 5332880 \\ 53928749 \end{array}$$

$$\begin{array}{r} 0128 \\ 0345 \\ 0168 \\ 0641 \\ 0033 \\ -0608 \end{array}$$

$$\begin{array}{r} 314.232 \\ 628 \\ 942 \\ 628 \end{array}$$

$$\begin{array}{r} 0116 \\ 0162 \\ 0278 \\ 0148 \\ 0013 \\ 161 \\ -11 \end{array}$$

$$\begin{array}{r} 22858 \end{array}$$

$$\begin{array}{r} 0154 \\ 0065 \\ 0167 \\ 0381 \\ 0326 \\ -0055 \end{array}$$

$$\begin{array}{r} 9/224 \\ 346 \\ 150 \\ 175 \end{array}$$

$$\begin{array}{r} 0217 \\ 0012 \\ 0059 \\ 0321 \\ 392 \\ 175 \end{array}$$

$$\begin{array}{r} 0054 \\ 0105 \\ 0028 \\ -0187 \\ 0318 \\ +131 \end{array}$$

$$\begin{array}{r} 8120601 \\ 643663 \end{array}$$

$$\begin{array}{r} 24361803 \\ 4872361 \\ 487236 \\ 24362 \\ 3248 \\ 487 \end{array}$$

$$29749492 = 11,3$$

$$2288335$$

$$68660,4$$

$$\begin{array}{r} 257.201 \\ 5020 \end{array}$$

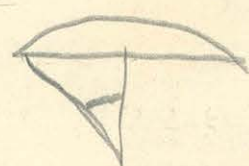
$$\begin{array}{r} 50451 : 54 \\ 1009 \end{array}$$

$$\begin{array}{r} 68661.1009 \\ 617749 \end{array}$$

$$69278949$$

$$B = 69278949$$

$$B = 53928749$$



$$\begin{array}{r} 0026 \\ 0068 \\ 0094 \\ 0186 \\ 0023 \\ 01063 \end{array}$$

$$\begin{array}{r} 0026 \\ 0068 \\ 0094 \\ 0186 \\ 0023 \\ 01063 \end{array}$$

$$\begin{array}{r} 728,5 : 45 = 360,2x \\ 2x = \frac{360,2x}{728,5} \\ 145,7 \end{array}$$

$$\begin{array}{r} 3240 : 145 = 22 \\ 340 \\ 38 \end{array}$$

$$\begin{array}{r} 116.0,191 \\ 1044 \\ 116 \end{array}$$

$$\begin{array}{r} 32156 \end{array}$$

$$\begin{array}{r} 44,20 \end{array}$$

$$\begin{array}{r} 711045 = 0,006698 \\ 7300 \\ 10300 \\ 8950 \end{array}$$

$$\begin{array}{r} 2,4 : 1055 = 0,002271 \\ 1500 \\ 4450 \end{array}$$

$$\begin{array}{r} 0,46 : 1771 = 0,002599 \\ 1060 \\ 1750 \\ 1570 \end{array}$$

$$\begin{array}{r} 0,1 : 1068 = 0,000943 \\ 460 \\ 360 \end{array}$$

$$\begin{array}{r} 193 : 106 = 0,018208 \\ 840 \\ 220 \\ 0800 \end{array}$$

$$\begin{array}{r} 12,4 : 187 = 0,06631 \\ 1180 \\ 580 \\ 190 \end{array}$$

$$\begin{array}{r} 14,4 : 1845 = 0,007805 \\ 7950 \\ 5700 \\ 1650 \end{array}$$

$45526.877,9$
 364208
 318682
 318682
 409734

399672754

$+016859$
 -008718
 $+008111$
 $+000071$
 35825.679

214950
 250775
 322425

24325175

236.146
 944
 1416

34456:90 =

3828.5

251000
 1000000
 1000000
 1000000

81351.3829

244053

650808
 162702
 732159

3114929.79

8410
 9620
 8610
 8210

$51000 +$
 $6000 +$
 $2210 -$
 $1010 +$

$19510 -$
 $22210 -$
 $22200 +$
 $005100 -$

286620
 296650
 20510
 294510

$+013312$
 -016188
 -002826
 -001478

2220
 2220
 2220

1221
 52
 25

9112
 9112
 9112

$215000 +$
 $450000 +$
 $660000 -$
 $1000000 +$

510000
 906000
 800000
 800000

519000
 002600
 100000
 665200

Kálatalával 1040 mpm.
 Eltérítés mélyre hatása
 nélkül az egyenlőség:

$359,2$
 $146,8$
 $340,2$

$212,4$
 $193,4$
 $247,9$

Nagy mélyre érkei farkával for-
 dítva a variométer felé
 2000 mpm. távolban

$157,9$
 $301,5$
 $170,8$

$143,6$
 $130,7$
 $233,1$

Déli farkával fordítva

$203,0$
 $319,0$
 $213,2$

116
 $105,8$
 $263,6$

1500 mpm. távolban déli farkával
 a variométer felé

$282,0$
 $290,1$
 $282,7$

81
 714
 $286,3$

Érkei farkával

$253,0$
 $173,0$
 $246,0$

80
 73
 $210,2$

A felsőgömbök fordulása
 a pehely és farkától 360 mpm.
 Ez még hosszadalmas.

1100 mpm. távolban.

Érkei a variométer felé.

$194,6$
 $123,5$
 $188,4$

$71,1$
 $64,9$
 $157,4$

Délinél:

$265,2$
 $415,0$
 $278,1$

mérték a
 C mélyreped

$$A = 1$$

$$B = \frac{1}{\sqrt{2}(1-0,9\cos 45^\circ)^{\frac{1}{2}}} = 3,22510$$

$$C = \frac{1}{2(1-0,9\cos 30^\circ)^{\frac{1}{2}}} = 4,82668$$

$$D = \frac{1}{(0,1)^{\frac{1}{2}}} = 31,6228$$

$$\lg B = 0,5085424$$

$$\lg C = 0,6836577$$

$$\lg D = 1,50000$$

$$a_3 = \frac{19,30672 - 27,3862 - 5,58603 + 0,09078}{0,08641} = -\frac{13,57475}{0,08641}$$

$$\lg a_3 = 3,1961662$$

$$a_3 = -1570,96$$

$$a_1 = -1569,96$$

$$a_2 = +2224,20$$

$$a_4 = 466,52$$

$$\lg a_1 = 3,1958887$$

$$\lg a_2 = 3,3471708$$

$$\lg a_3 = 3,1961662$$

$$\lg a_4 = 2,6688703$$

$$F = -1569,96 \sin \varphi + 2224,20 \sin 2\varphi - 1570,96 \sin 3\varphi + 466,52 \sin 4\varphi$$

$$F_{\varphi=10^\circ} = -272,621 + 760,721 - 785,482 + 299,870 = 2,491$$

$$F = \frac{\sin \varphi}{\sqrt{1-k \cos \varphi}} = 4,5709$$

$$\begin{array}{r} 0,8494850 - 1 \\ 0,9542425 - 1 \\ \hline 0,8037275 - 1 \end{array}$$

$$\begin{array}{r} 0,606096 \\ 0,060604 \end{array}$$

$$\begin{array}{r} 0,5606284 - 1 \\ 0,6818852 - 2 \\ 0,3409426 - 1 \\ 04 \end{array}$$

$$\begin{array}{r} 0,9275206 - 1 \\ 0,9542425 - 1 \\ \hline 0,8917731 - 1 \end{array}$$

$$\begin{array}{r} 8494850 \\ 3409426 \\ \hline 0,5085424 \end{array}$$

$$\begin{array}{r} 0,779423 \\ 0,220567 \\ \hline 0,410283 \end{array}$$

$$343$$

$$\begin{array}{r} 0,0425080 - 1 \\ 0,9574919 \end{array}$$

$$\begin{array}{r} 0,3405415 - 1 \\ 0,0306245 - 2 \\ 0,0153120 - 1 \\ 3010300 \\ \hline 0,3163420 - 1 \\ 0,6836577 \end{array}$$

$$482668$$

$$177$$

$$87$$

$$783$$

$$0,22$$

$$0,469$$

$$0,10082$$

$$2$$

$$177$$

$$1,50000$$

$$316228$$

$$0,4771210$$

$$\begin{array}{r} \lg \sqrt{3} = 0,2385607 \\ 5085424 \\ \hline 0,7471031 \end{array}$$

$$5,58600$$

$$1,22475$$

$$86600$$

$$2,09078$$

$$1,7385607$$

$$54,7723$$

$$27,3862$$

$$2 \quad 3010300$$

$$1505150$$

$$-2,44949$$

$$346410$$

$$5,91359$$

$$2285607$$

$$1505150$$

$$0,0880457$$

$$0,0890757$$

$$122475$$

$$1173205$$

$$2,95680$$

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19,30672
0,09078
19,39750

27,2862
5,58607
22,97220
19,39750
13,5747³

1,1727302
0,9265640 - 2
3,1961662

157096

314092

3,4979568
0,1505150
3,3465418

$a_2 = B - \frac{1}{n_2}(a_1 + a_3)$

222420
- 222097
3,23

2,4570568
1505150
3,3465418

+ 1569,96
4712,88

6282,84
4448,40

1884,44
31,62

1866,06
466,52

1-046514610
1-524243610
1-515006610

62098810
0,110673

1-465955010
1-221669110

2-1984861-2
0,58348510

1-20696702-1
0,65618410

+ 222098
3,22

2224,20

10054

272,621
785482
1058,103

785482

3,1961662
0,6949700
2,8951362

760,721

3,3471708
0,5240517-1
2,8812255

+ 2712
2112

1618
1018501
4620901
2991872
760721

272,621

3,1458887
0,2296702-1
1,4355589

MAJAR
TUMBUK
OF ACADEMY
NONTIARA

2,668703
0,8080075-1
2,14769378

$$\frac{F_\varphi + F_{\varphi+\pi}}{2} = \frac{1}{2} \frac{\sin \varphi}{(1-K \cos \varphi)^2} - \frac{1}{2} \frac{\sin \varphi}{(1+K \cos \varphi)^2}$$

$$\frac{F_\varphi + F_{\varphi+\pi}}{2} = a_2 \sin 2\varphi + a_4 \sin 4\varphi + a_6 \sin 6\varphi + a_8 \sin 8\varphi.$$

$$\left(\frac{F_\varphi + F_{\varphi+\pi}}{2} \right)_{45} = A = a_2 - a_6$$

$$A = 1,433738$$

$$\frac{1}{2} \left\{ \frac{1}{(1-K)^2} - \frac{1}{(1+K)^2} \right\} = B = 2a_2 + 4a_4 + 6a_6 + 8a_8$$

$$B = 13,9022$$

$$C = 2,30792$$

$$\left(\frac{F_\varphi + F_{\varphi+\pi}}{2} \right)_{30} = C = a_2 \sin 60 + a_4 \sin 60 - a_8 \sin 60$$

$$D = 2,68916$$

$$\left(\frac{F_\varphi + F_{\varphi+\pi}}{2} \right)_{15} = D = \frac{a_2}{2} + a_4 \sin 60 + a_6 + a_8 \sin 60$$

$$B = 2a_2 + 4a_4 + 6a_6 - 6A + 8a_8 = -6A + 8a_2 + 4a_4 + 8a_8.$$

$$\frac{2C}{\sqrt{3}} =$$

$$\frac{2C}{\sqrt{3}} = a_2 + a_4 - a_8$$

$$D = -A + \frac{3}{2}a_2 + \frac{\sqrt{3}}{2}a_4 + \frac{\sqrt{3}}{2}a_8$$

$$a_8 = a_2 + a_4 - \frac{2C}{\sqrt{3}}$$

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$$B = -6A - \frac{16C}{\sqrt{3}} + 16a_2 + 12a_4$$

$$D = -A - C + \frac{3+\sqrt{3}}{2}a_2 + \sqrt{3}a_4$$

$$\sqrt{3}B - 12D = -(6\sqrt{3} + 12)A - (16 - 12)C + (\sqrt{3} \cdot 16 - 6(3+\sqrt{3}))a_2$$

$$a_2 = \frac{\sqrt{3}B - 12D - (12 - 6\sqrt{3})A + 4C}{10\sqrt{3} - 68 - 6\sqrt{3}}$$

$$K = 0,9$$

$$\log a_2 = 0,2693715$$

$$\log a_4 = 0,0694592$$

$$\log a_6 = 0,6290628 - 1$$

$$\log a_8 = 0,5657062 - 1$$

$$a_2 = 1,85940$$

$$a_4 = 1,17344$$

$$a_6 = 0,42566$$

$$a_8 = 0,96788$$

$$\frac{F_{15} + F_{15+\pi}}{2} = 1,82141$$

$$\frac{F_{15} + F_{15+\pi}}{2} = 1,687546$$

		lg	mm △
0	39° 30'	0,8243	239
-20	arely 0,6667	0,6667	193
-40	28°	0,5317	154
-60	35°	0,7002	203
-80	33 30	0,6619	192
100			
120			

MAJAK
TUDOMÁNYOS MŰHELY
KÖNYVTÁRA

0 15 36

$$\begin{array}{r}
 0,24729 \\
 \underline{8} \\
 239
 \end{array}
 \quad
 \begin{array}{r}
 20000 \\
 \underline{666} \\
 193
 \end{array}
 \quad
 \begin{array}{r}
 19857 \\
 \underline{66} \\
 192
 \end{array}
 \quad
 \begin{array}{r}
 37716 \\
 \underline{1257} \\
 36459
 \end{array}$$

$$\begin{array}{r}
 15951 \\
 \underline{53} \\
 154 \\
 21006 \\
 \underline{7} \\
 203
 \end{array}$$

+50	17° 30'	0,3150	91
+40	75°	0,8663	135
+30	37° 30'	0,7673	223
+20	57° 30'	1,2572	365
+10	54° 30'	1,4019	419
0	39° 30'	0,8243	239
-20	—	0,6667	193
-40	28°	0,5317	154
-60	35°	0,7002	203
-80	33° 30'	0,6619	192
+5°	57°	1,2319	358
15°	53 30'	1,3514	378 392

$$\begin{array}{r}
 23375 \\
 \underline{466} \\
 22849
 \end{array}$$

$$\begin{array}{r}
 10989 \\
 \underline{466} \\
 10523
 \end{array}$$

$$\begin{array}{r}
 32 \\
 0 \quad 17 \quad 42 \quad 55 \\
 85 \quad 210 \quad 275 \\
 160 \\
 37047 \\
 \underline{123} \\
 358
 \end{array}$$

$$\begin{array}{r}
 9459 \\
 \underline{315} \\
 914 \\
 42057 \\
 \underline{142} \\
 419 \\
 2830 \\
 37047 \\
 \underline{123} \\
 358
 \end{array}
 \quad
 \begin{array}{r}
 1,3032 \\
 39096 \\
 \underline{130} \\
 3779 \\
 22252 \\
 1,
 \end{array}
 \quad
 \begin{array}{r}
 40542 \\
 \underline{135} \\
 392
 \end{array}$$

179
358

65° 22' 4

$$\begin{array}{r} 1574 \overline{) 12512} \quad 647 \\ \underline{11604} \\ 9080 \\ \underline{7736} \\ 13440 \end{array}$$

$$\begin{array}{r} 192 \overline{) 4245} \quad 221 \\ \underline{384} \\ 405 \\ \underline{384} \\ 210 \end{array}$$

$$\begin{array}{r} 191 \overline{) 1857} \quad 97 \\ \underline{1719} \\ 1340 \end{array}$$

$$\begin{array}{r} 191 \overline{) 2217} \quad 116 \\ \underline{191} \\ 307 \\ \underline{191} \\ 1160 \end{array}$$

$$\begin{array}{r} 191 \overline{) 2309} \quad 121 \\ \underline{191} \\ 399 \\ \underline{382} \\ 170 \end{array}$$

$$\begin{array}{r} 191 \overline{) 2529} \quad 206 \\ \underline{382} \\ 1190 \end{array}$$

MAOYAN
TUDOUJIAO KEJIAN
KUNMING

$$\begin{array}{r} 19 \overline{) 8847} \quad 465 \\ \underline{76} \\ 124 \\ \underline{114} \\ 107 \end{array}$$

$$\begin{array}{r} 191 \overline{) 1763} \quad 92 \\ \underline{1719} \\ 440 \end{array}$$

$$\begin{array}{r} 19 \overline{) 1403} \quad 74 \\ \underline{133} \\ 75 \end{array}$$

$$\begin{array}{r} 19 \overline{) 4770} \quad 251 \\ \underline{38} \\ 970 \end{array}$$

$$\begin{array}{r} 101 \\ 2 \\ 1335 \\ 445 \end{array}$$

$$\begin{array}{r} 137 \\ 131 \\ 275 \end{array}$$

$$\begin{array}{r} 97209 \overline{) 8541} \quad 452 \\ \underline{756} \\ 981 \\ \underline{945} \\ 360 \end{array}$$

$$\begin{array}{r} 2 \\ 555 \\ 185 \end{array}$$

$$\begin{array}{r} 188 \overline{) 6877} \quad 365 \\ \underline{564} \\ 1233 \\ \underline{1128} \\ 10501 \end{array}$$

$$\begin{array}{r} 76 \\ 31 \\ 474 \\ 858 \end{array}$$

$$\begin{array}{r} 182 \\ 0.044 \\ 160'0 \end{array}$$

$$\begin{array}{r} 188 \overline{) 2878} \quad 205 \\ \underline{141} \\ 1468 \\ \underline{141} \\ 559 \end{array}$$

$$\begin{array}{r} 488 \\ 1964 \end{array}$$

$$\begin{array}{r} 390 \\ 181 \end{array}$$

$$\begin{array}{r} 187 \overline{) 2050} \quad 160 \\ \underline{181} \\ 240 \\ \underline{222} \\ 180 \end{array}$$

$$\begin{array}{r} 88 \\ 816 \\ 900 \end{array}$$

$$\begin{array}{r} 404 \\ 14 \\ 423 \\ 141 \end{array}$$

$$\begin{array}{r} 1875 \\ 3 \\ 625 \end{array}$$

$$\begin{array}{r} 222 \\ 222 \end{array}$$

$$\begin{array}{r} 2607 \\ 2607 \\ 354 \\ 1662 \end{array}$$

-23,5
-123,5
-31,0

} skálátárs 118 cm.

II.

gyengül - 75,4

II - III.

-150,5
+110,0
-127,5

120 cm.

II

-14,2

~~III.~~

2

$12,4 : 1170 = 0,0105989$ 2,5 # 100

$\frac{2000}{11500}$
9700

0,925

$92,5 : 1925 = 48,1$
15500
1000
75,4

$237,5 : 260,5 = 0,912$

3050
4450

$237,5 : 1,912 = 124,2$

4630
8060
4120

$33 : 1165 = 0,002833$
9700
3800
3050

III.

116,5 cm. skálátárs.

-207,5
+201,4
-171,0

gyengül + 6,6

$17,5 : 1170 = 0,001248$
2800
5600
9200

$372,4 : 408,9 = 0,911$

4390
3010

$3724 : 1911 = 194,8$

18130
9310
16660

$2,1 : 1200 = 0,00175$
11000
20
80

III - IV.

skálátárs 117 cm.

+132,0
-126,0
+109,5

gyengül - 2,9

$235,5 : 258 = 0,913$

30
720

$235,5 : 1913 = 123,1$

4420
5940
2010

IV.

skálátárs 117 cm.

+208,5
-143,0
+178,0

+ 24,8

$321 : 351,5 = 0,913$

4650
11350

$321 : 1913 = 167,8$

12920
14920
15290

$288,5 : 317 = 0,910$

320
030

$288,5 : 191 = 151,0$

925
200
090

202
51

IV - I

skálátárs. 117 cm.

-115,0
+202,0
-86,5

+ 51

I. skálátárs 117 cm.

-202,5
+190,4
-168,5

+ 12,8

I - II. skálátárs. 117 cm.

+52,5
-192,5
+31,5

- 75,0

II. skálátárs 117 cm.

+97
230
+68

- 74,1

Skálatorvíd 118 Am.

II—III. heft

$$\begin{array}{r} 188,5 \\ -206,5 \\ \hline 154,8 \end{array}$$

$$\begin{array}{r} 36,3 : 1395 = 0,915 \\ \hline 580 \\ 1850 \end{array}$$

$$\begin{array}{r} 206,5 \\ 20,7 : 1,915 = 188,6 \\ \hline 16980 \\ 16600 \\ \hline 12800 \end{array}$$

$$\begin{array}{r} 101,1 \\ -17,4 \\ \hline \end{array}$$

Déli furd a varianet fel' (máyn a hely' oldalon)

$$\begin{array}{r} -87,0 \\ +198,5 \\ -56,7 \end{array}$$

$$\begin{array}{r} 255,2 : 279,5 = 0,913 \\ \hline 3650 \\ 8550 \end{array}$$

$$\begin{array}{r} 198,5 \\ 255,2 : 1913 = 133,4 \\ \hline 6390 \\ 6510 \\ \hline 7710 \end{array}$$

$$\begin{array}{r} 82,5 \\ 83,7 \\ \hline 82,9 \\ 84,5 \\ \hline 64,1 \\ 17,4 \\ \hline +82,5 \\ +82,9 \end{array}$$

$$\begin{array}{r} +65,1 \\ \hline \end{array} \quad \text{(kítar' 82,5)}$$

E. a varianet fel'

$$\begin{array}{r} -199,2 \\ -11,0 \\ -183,2 \end{array}$$

$$\begin{array}{r} 172,2 : 188,2 = 0,912 \\ \hline 2370 \\ 4830 \\ \hline -107,1 \end{array}$$

$$\begin{array}{r} 183,2 \\ 172,2 : 1912 = 90,1 \\ \hline 191200 \\ 93,1 \end{array}$$

$$\begin{array}{r} -75,7 \\ -84,5 \end{array}$$

$$\begin{array}{r} -98,1 \\ \hline \end{array} \quad \text{(kítar' 75,2)}$$

Máyn máyn, an ajto' fel', déli furd a varianet fel'

$$\begin{array}{r} +186,8 \\ -45,0 \\ +160,0 \end{array}$$

$$\begin{array}{r} 211 : 231,8 = 0,910 \\ \hline 2980 \\ 0620 \end{array}$$

$$\begin{array}{r} 211 : 191 = 1105 \\ \hline 200 \\ 900 \\ \hline 45 \\ 65,5 \end{array}$$

$$\begin{array}{r} +65,5 \\ \hline \end{array} \quad \text{(kítar' 82,9)}$$

E. a var. fel'

$$\begin{array}{r} +16,0 \\ -208,6 \\ -5,0 \end{array}$$

$$\begin{array}{r} 203,6 : 224,6 = 0,907 \\ \hline 14600 \end{array}$$

$$\begin{array}{r} 208,6 \\ 203,6 : 1907 = 106,7 \\ \hline 12900 \\ 14580 \\ \hline 101,9 \end{array}$$

$$\begin{array}{r} -107,9 \\ \hline \end{array} \quad \text{(kítar' 84,5)}$$

e min

$$\begin{array}{r} 41,45 : 118 = 0,035127 \\ \hline 605 \\ 150 \\ \hline 320 \\ 840 \end{array}$$

$$\begin{array}{r} 41,25 : 1180 = 0,034958 \\ \hline 5850 \\ 11300 \\ \hline 6800 \\ 9000 \end{array}$$

$$\begin{array}{r} 42,25 : 118 = 0,035805 \\ \hline 685 \\ 950 \\ \hline 0600 \end{array}$$

$$\begin{array}{r} 41,85 : 118 = 0,035466 \\ \hline 645 \\ 2590 \\ \hline 780 \\ 1720 \end{array}$$

		ezenfel:	250-tól:	skálátis.	prög	prög	kefens
<u>IV.-I.</u>	$\left. \begin{matrix} 202,1 \\ 306,7 \\ 212,0 \end{matrix} \right\}$	257,0	+7,0	1045 ^{mp.}	+23'03		+14 + 0,006699
<u>I.</u>	$\left. \begin{matrix} 57,8 \\ 433,0 \\ 92,5 \end{matrix} \right\}$	254,6	+4,6	1770.		+8'92	+9,2 + 0,002595
<u>I.-II.</u>	$\left. \begin{matrix} 146,4 \\ 342,1 \\ 164,4 \end{matrix} \right\}$	249,0	-1,0	1060.	-3'26		+2,0 - 0,000948
<u>II.</u>	$\left. \begin{matrix} 473,2 \\ 81,6 \\ 437,3 \end{matrix} \right\}$	267,4	+17,4	1845.		+32'43	+34,8 + 0,009434
<u>II.-III.</u>	$\left. \begin{matrix} 370,6 \\ 177,5 \\ 352,7 \end{matrix} \right\}$	269,3	+19,3	1060.	+1° 2'73		+38,6 + 0,018248
<u>III.</u>	$\left. \begin{matrix} 467,0 \\ 77,0 \\ 430,4 \end{matrix} \right\}$	262,4	+12,4	1870.		+22'87	+24,8 + 0,006635
<u>III.-IV.</u>	$\left. \begin{matrix} 341,8 \\ 152,8 \\ 324,2 \end{matrix} \right\}$	242,6	-7,4	1055.	-24'19		-14,8 - 0,007037
<u>IV.</u>	$\left. \begin{matrix} 357,0 \\ 144,3 \\ 337,6 \end{matrix} \right\}$	245,6	-4,4	1835.		-8'22	-8,8 - 0,002391
<u>IV.-I.</u>	$\left. \begin{matrix} 127,9 \\ 375,0 \\ 151,1 \end{matrix} \right\}$	257,6	+7,6	1085.	+24'11		+0,007013 +15,240,

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$$\begin{array}{r} 1880 \\ 3050 \\ \hline 9850 \end{array}$$

$$\begin{array}{r} 1880 \\ 1650 \\ \hline 12300 \end{array}$$

$$\begin{array}{r} 157,8 \\ 157,8 \\ \hline 157,8 \end{array}$$

$$\begin{array}{r} 0,13142 \\ 12422 \\ \hline 0,13142 \end{array}$$

$$\begin{array}{r} 1,03 \\ 0,18 \\ \hline 1,21 \end{array}$$

$$\begin{array}{r} 176 \\ 0,1848 \\ \hline 0,1848 \end{array}$$

357,6)
148,1)
339,4)

218,4
206,4

$$\begin{array}{r} 191,3 : 209,5 = 0,913 \\ \underline{2750} \\ 6550 \end{array}$$

$$191,3 : 191,3 = 100$$

184,2

158,8
301,3
171,4

$$\begin{array}{r} 1299 : 1425 = 0,912 \\ \underline{1650} \\ 2250 \end{array}$$

2,81
0,34
3,15
1,57
359,2
1,6
357,6

0,041,8,4
164
328
3444

2,43.
0,24
2,17
0,038,6,4
152
228
0,2432

$$\begin{array}{r} 1299 : 1912 = 67,9 \\ \underline{15180} \\ 17960 \end{array}$$

$$\begin{array}{r} 1054 : 1155 = 0,912 \\ \underline{1450} \\ 2950 \end{array}$$

$$\begin{array}{r} 1054 : 1912 = 55,1 \\ \underline{9800} \\ 2400 \end{array}$$

$$\begin{array}{r} 734 : 804 = 0,913 \\ \underline{1040} \\ 2360 \end{array}$$

$$\begin{array}{r} 734 : 1913 = 38,3 \\ \underline{16070} \\ 7060 \end{array}$$

$$\begin{array}{r} 159,5 \\ - 88,6 \\ \hline \end{array} \left\{ \begin{array}{l} 194,8 \\ 127,9 \\ 188,7 \end{array} \right\}$$

$$\begin{array}{r} \cancel{288,2} \\ 341,0 \\ + 92,9 \end{array} \left\{ \begin{array}{l} 265,2 \\ 410,0 \\ 278,1 \end{array} \right\}$$

$$\begin{array}{r} 608 : 669 = 0,909 \\ \underline{5900} \end{array}$$

$$\begin{array}{r} 603 : 1909 = 31,6 \\ \underline{3030} \\ 11210 \end{array}$$

$$\begin{array}{r} 131,9 : 1,911 = 69,0 \\ \underline{17240} \\ 10410 \end{array}$$

$$\begin{array}{r} 1319 : 1448 = 0,911 \\ \underline{1580} \\ 1320 \end{array}$$

$$\begin{array}{r} 1319 : 1448 = 12,13 \\ \underline{9080} \\ 52580 \end{array}$$

$$\begin{array}{r} 1319 : 1448 = 0,911 \\ \underline{1580} \\ 1320 \end{array}$$

$$\begin{array}{r} 1319 : 1911 = 69,0 \\ \underline{17240} \end{array}$$

$$1505 : 1040 = 0,01447115 = I.$$

$$\begin{array}{r} 4650 \\ 4900 \\ 7400 \\ 1200 \\ 1600 \\ 5600 \end{array}$$

$$38,1 : 1040 = 0,03663461 = II.$$

$$\begin{array}{r} 6900 \\ 6600 \\ 3600 \\ 4800 \\ 6400 \\ 1600 \end{array}$$

$$90,75 : 1040 = 0,08725961 = III.$$

$$\begin{array}{r} 7550 \\ 2700 \\ 6200 \\ 10000 \\ 6400 \\ 1600 \end{array}$$

$$I^3 = 236.236.236$$

$$\begin{array}{r} 472 \\ 708 \\ 1,416 \\ 55696.236 \\ 334176 \\ 167088 \\ 111392 \\ 13,1442,56 = I^3 \end{array}$$

$$I^3 = 186.186.186$$

$$\begin{array}{r} 1488 \\ 1116 \\ 34596.186 \\ 276768 \\ 207576 \\ 6434856 = I^3 \end{array}$$

$$I^{II3} = 146.146.146$$

$$\begin{array}{r} 584 \\ 876 \\ 21316.146 \\ 85264 \\ 127896 \\ 3112136 = I^{II3} \end{array}$$

$$\begin{array}{l} B = 39967275 \\ B = 24325175 \\ B = 31149297 \end{array} \left. \begin{array}{l} 142 - \text{bit} \\ 253 - \text{bit} \\ 153 - \text{bit} \end{array} \right\}$$

$$13144256.1447115$$

$$\begin{array}{r} 52577024 \\ 52577024 \\ 92009792 \\ 13144256 \\ 13144256 \\ 65721280 \end{array}$$

$$I^3 = 19021250021440$$

$$6434856.0,03663461$$

$$\begin{array}{r} 164366300 \\ 19304568 \\ 3860914 \\ 386091 \\ 19304 \\ 2574 \\ 3866 \end{array}$$

$$II^3 = 23573843$$

$$\begin{array}{r} 3112136.00 \\ 169527800 \\ 24897088 \\ 2178495 \\ 62243 \\ 15561 \\ 2801 \\ 1873 \end{array}$$

$$27156378 = III. I^{II3}$$

$$I^I = 236.186$$

$$\begin{array}{r} 1888 \\ 1416 \\ 43896 : 50 \\ 8779.2 \end{array}$$

$$190212,5$$

$$235738,4$$

$$I^3 - 2I^3 = 45525,9$$

$$\frac{I^I}{I^I - I} = -877,92$$

$$2I^3 - 3I^3 = -35825,4$$

$$I^{II} = 186.146$$

$$\begin{array}{r} 744 \\ 1116 \\ 22156 : 40 \\ 6789 \end{array}$$

$$\frac{I^{II}}{I^I - I} = -678,9$$

$$\left. \begin{array}{l} B = 3996727 \\ B = 2432517 \end{array} \right\}$$

$$\begin{array}{r} 11 - 75 \\ 1 \end{array}$$

$$11 - 14 - 14,2$$

$$111 + 6,6$$

$$111 - IV - 2,9$$

$$IV + 24,8$$

$$IV - I + 51$$

$$I + 12,8$$

$$I - II - 74,7$$

$$11 - 25$$

$$111 + 9$$

$$11 - 111 + 19$$

$$111 - IV - 38$$

$$-16$$

$$-19$$

$$+7$$

$$+9$$

$$+13$$

$$-4$$

$$+12$$

$$+15$$

$$+43$$

$$-8 - 14$$

$$\begin{array}{r} - 0,0019 \\ 189,20 \\ - 0,0130 \\ \hline 0,00325 \end{array}$$

$$\begin{array}{r} + 0,0028 \\ 8200,0 \\ 106 \\ 55 \\ \hline 189 \end{array}$$

1 - IV

$$+ 0,0218$$

$$\begin{array}{r} - 0,0059 \\ 12 \\ 321 \\ \hline 0,0292 \\ 218 \\ \hline 0,0114 \\ 0,00435 \end{array}$$

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$$\left(\frac{\tau}{\gamma} \right) = C$$

$$(M, L, \dots) = C$$

$$\left(\frac{\partial V}{\partial x^2} - \frac{\partial V}{\partial y^2} \right) = \tau \delta$$

$$- \left(\frac{\partial V}{\partial x^2} - \frac{\partial V}{\partial y^2} \right) \frac{g}{r^4} M = \tau \delta$$

$$\frac{\partial V}{\partial x^2} = - \frac{3}{r^5} 3 a M + \frac{15 a^2}{r^7} a M = + \frac{6}{r^4} M$$

$$C = \frac{g M}{r^4 \delta}$$

$$\frac{\partial V}{\partial y^2} = - \frac{3}{r^4} M$$

$$C = 0,002377$$

$$\left(\frac{\partial V}{\partial x^2} - \frac{\partial V}{\partial y^2} \right) \sin 2\alpha + 2 \frac{\partial V}{\partial x \partial y} \cos 2\alpha = C \delta$$

Mar

Σ

$$\frac{1}{10} \frac{\partial F}{\partial x} = -2 \cos 2x \left(3,331097 \int l^2 dm \cos 2x + \int 0,042486 \int l^4 dm \cos 2x \right)$$

$$K_4 = 10198,04$$

$$+ 6 \cos 6x \cdot 0,003923 \frac{1}{K} \int l^4 dm \cos 4x$$

$$\int l^2 dm \cos 2x = K \left(1 - \frac{k}{K_4} - 2 \frac{\int dm \eta^2}{K_4} \right)$$

K. a. linkszártsághoz képesti momentum

$$\frac{k}{K} = \frac{t^2}{J_0^2} = \frac{20^2}{750,80^2}$$

$$\frac{k}{K} = 0,000709573$$

$$2 \int dm \eta^2 = 21,89$$

$$\int l^2 dm \cos 2x = K(1 - 0,0028576) = K 0,9971424$$

$$\int l^4 dm \cos 2x = 1647627 = K$$

$$\frac{\int l^4 dm \cos 2x}{62 K_4} = 0,723837$$

$$\left(\frac{1}{10} \frac{\partial F}{\partial x} \right)_t - \left(\frac{1}{10} \frac{\partial F}{\partial x} \right)_1 = (13,324388 \cdot 0,997142 + 0,173944 \cdot 0,723837) K$$

$$= 13,4122 K$$

$$\sigma = 11,179631$$

$$\left(\frac{1}{J_1^2} - \frac{1}{J_2^2} \right) - \left(\frac{1}{J_0^2} - \frac{1}{J_t^2} \right) = \begin{matrix} +0,00000108021 \\ -0,00000007677 \\ +0,00000100354 \end{matrix}$$

$$f = \frac{\pi^2 \cdot 0,00000100354}{13,4122 \cdot 11,1796} = 66,056 \cdot 10^{-9}$$

$108027 \cdot 10^{-6}$
 $0,07677$

 $1,00350$

$9,904148$
 $0,741252 \cdot 10^{-6}$

Kp.

$10'0 = 61:69'0$

9-28

$66'01'59$
 $66'01'59$

9090798
 9181596
 1690692

 9509097
 $149,173$

un	un	un	un
-0,001259	+0,089634	+0,007696	+0,000430
-1,000004	+0,000742	+0,000037	
	+0,090376		
	-0,000008		
+0,007417			
+0,000032			
+0,0007439			
+0,0001263			
-0,006176 Kun	-0,090368 Kun	-0,007733	-0,000430

Kp.

8946
4473

$\alpha = 0$

-8,269229

$\alpha = \frac{\pi}{2}$

+5,092047

KÖNYVTÁRA

$\alpha = 0$

$12,836802$

 10798

$-6,454032$
 $-1,848373$
 $+0,039099$
 $-0,006022$

 $-8,308428$
 $-8,269329$

$+6,959949$
 $-1,848373$
 $-0,023968$
 $+0,004429$

 $+6,964388$
 $1,872341$

 $+5,092047$
 $8,269329$

 $13,361376$

$$1^4 \cos 4\epsilon = 1^4 \cos^4 \epsilon - 6 \sin^2 \epsilon \cos^2 \epsilon + 1^4 \sin^4 \epsilon.$$

$$9\epsilon - 6 \frac{1}{2} \epsilon^2 + \epsilon^4$$

0,999290427

6,662079

665
1330

37,513
33,5
27,5
20,5
14,5
9,5
5,5

40
48
1110
1198

6662079
41912
6707091
13,414182
5
1236

10,6
2 9

8,4

66,5
1336

8,4
252 15
196
3980

1236 / 2300 / 25
2672
628

1,198

~~4000~~ 13

520
10 200

~~4000~~ 1

2983 20
83 98
20 67 18

0,999290427

$$R = \frac{2\eta^2 dm}{\dots}$$



$$\xi = s +$$

$$\xi^2 - \eta^2$$

$$(s - \xi)^2 - \eta^2$$

$$s^2 - \cancel{2s\xi} + 6s^2\xi^2 - \cancel{4s\xi^3} + \int \xi^4 - \eta^4 \cdot s^2 + \xi^2 + 2s\xi + \eta^2$$

$$\int (\xi^4 - \eta^4) dm = \int (s^4 + 6s^2\xi^2) dm$$

$$\frac{(s^4 - 6s^2\xi^2 + \xi^4 - \eta^4)(\xi^2 + \eta^2)}{(s^4 - 6s^2\xi^2)(\xi^2 + \eta^2)} \quad \text{cos}$$

$$\int (\xi^4 - \eta^4)(\xi^2 + \eta^2)$$

$$(\xi^2 - \eta^2)(\xi^2 + \eta^2)^2$$

$$\int x^6 (\cos^4 \varphi - \sin^4 \varphi) d\varphi$$

$$\int (\xi^4 - \eta^4)(\xi^2 + \eta^2) dm = \int (s^4 - 6s^2\xi^2)(\xi^2 + \eta^2) dm$$

$$(s^4 + 4s^2\xi^2 + 6s^2\xi^2 + 4s^2\xi^3 + \xi^4 - \eta^4)(s^2 + \xi^2 + 2s\xi + \eta^2)$$

$$\sin^2 \varphi, \cos^2 \varphi$$

$$s^6 + 6s^4\xi^2 + \cancel{3s^4\xi^2} - \cancel{s^2\xi^4}$$

$$\cancel{3s^2\xi^4} - \cancel{s^2\xi^4}$$

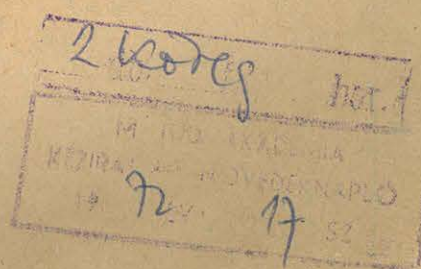
$$s^4\xi^2 + 6s^2\xi^4\xi^2 + \cancel{s^4\xi^2} - \cancel{\eta^6}$$

$$s^6 + \xi^6 - \eta^6$$



$$R = R^2 - s^2$$

Ms 5106/24-25. Eotris l. meyes jeoputei



Ms 5106/24

$$b \quad e^{-1,224 \frac{x}{n}} = -1,224 \cdot \frac{x}{n} \cdot 0,42429$$

$$\log = -1,224 - \log \frac{x}{n} + \log 0,42429$$

$$= \log(\log e^{-1,224 \frac{x}{n}})$$

$$\log(\log e^{-1,224 \frac{x}{n}}) = -$$

$$\log 0,42429 = 0,6277840$$

$$\log 1,224 \quad 0,1218880$$

$$\hline 0,7596720$$

~~$$-0,2403280$$~~

$$-\log \log e^{-1,224 \frac{x}{n}} = 0,7596720 -$$

$$+ \log \frac{x}{n}$$

$$\frac{x}{n} 2,1 \quad 0,3222190$$

$$\hline 7596720$$

$$-34 \quad 0,0818913$$

$$\hline 0,9181087 -1$$

$$-1,20751$$

$$0,792492$$

$$\hline 42708$$

$$\hline 0,229571$$

$$2,2 \quad 0,3424227$$

$$\hline 7596720$$

$$\hline 0,1020947$$

$$1,26502$$

$$0,734982$$

$$\hline 42708$$

$$\hline 0,17206 -1$$

$$1486$$

$$2,3 \quad 0,3617278$$

$$\hline 7596720 -1$$

$$\hline 0,1219998$$

$$1,22252$$

$$0,67748 -2$$

$$\hline 43708$$

$$\hline 0,11456 -1$$

$$0,1202$$

$$2,4 \quad 0,3802112$$

$$\hline 7596720$$

$$\hline 0,1098832$$

$$1,28002$$

$$0,61998 -2$$

$$\hline 43708$$

$$\hline 0,05706 -1$$

$$1,2800$$

$$0,62$$

$$\hline 4271$$

$$\hline 0,0571$$

$$1114$$

$$2,5 \quad 0,3979400$$

$$\hline 7596720$$

$$\hline 0,1576120$$

$$1,42752$$

$$0,562482$$

$$\hline 42708$$

$$\hline 0,99956 -2$$

$$0,0999$$

$$2,6 \quad 0,4149700$$

$$\hline 7596720$$

$$\hline 0,1746450$$

$$1,49502$$

$$0,504982$$

$$\hline 43708$$

$$\hline 0,94206$$

$$0,0875$$

$$2,7 \quad 0,4310608$$

$$\hline 7596720$$

$$\hline 0,1910358$$

$$1,55252$$

$$0,447482$$

$$\hline 42708$$

$$\hline 0,884562$$

$$2,8 \quad 0,4471580$$

$$\hline 7596720 -1$$

$$\hline 0,2068300$$

$$1,61002$$

$$0,389982$$

$$\hline 42708$$

$$\hline 0,827062$$

$$40672$$

$$2,9 \quad 0,4620980$$

$$\hline 7596720$$

$$\hline 0,2220700 -1$$

$$1,66752$$

$$0,332482$$

$$\hline 42708$$

$$\hline 0,769562$$

$$575$$

$$3,0 \quad 0,4771210$$

$$\hline 7596720$$

$$\hline 0,2367900$$

$$1,72502$$

$$0,274982$$

$$\hline 42708$$

$$\hline 0,71206$$

$$3,1 \quad 0,4910617$$

$$\hline 7596720$$

$$\hline 0,2510307$$

$$1,78252$$

$$0,217982$$

$$\hline 42708$$

$$\hline 0,65456$$

$$3,2 \quad 0,5051500$$

$$\hline 7596720$$

$$\hline 0,2648220$$

$$1,84002$$

$$0,159982$$

$$\hline 42708$$

$$\hline 0,59706$$

$$3,3 \quad 0,5185109$$

$$\hline 7596720$$

$$\hline 0,2781859$$

$$1,89752$$

$$0,102482$$

$$\hline 43708$$

$$\hline 0,50956$$

MAGYAR
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	λ	φ	δ
Villen	45	49° 15,2	0
Saison	+15,3 - 102	+6,5 65	121
Chateau Thierry	-19,5 - 130	-13,1 - 131	185
Meaux	+12,8 + 85	-16,8 - 168	188
Sartys	+30,8 + 205	-2,7 - 27	206
Cognac	+16,8 + 112	+10,5 + 105	154

~~Konfigie~~
~~Saison~~
~~Sartys~~
~~Meaux~~

	λ	φ	δ	$\delta' - \delta$	Δ'	$\Delta' - \Delta$	Δ
Meaux	-32,2	48° 58' 4"	0	$\delta = 15° 22'$		$\Delta = 0,1952$	
Chateau Thierry	-32,3 - 216	+3,7 37	219	+17'	-0,0776	-0,0002	-0,000000913
Sartys	+18,0 + 120	+14,1 141	185	+12'	+0,0649	-0,0015	0,00000099 -0,000000419 870
Satz	+9,1 + 61	-14,0 - 140	153	+4'	+0,0261	+0,0008	+0,00000523
	Δ'	β	Δ	δ			
Sartys - Chateau	0,0835 - 0,0010	79° - 3°	0,00000099 0,00000074	184°			
Chateau Satz	0,0800 + 0,0045	85° + 2°	57	180			
Satz - Sartys	0,0960 + 0,0015	83° + 0,7	83	208			
	0,0845	82°					

Tours
0

Romancourt
0

Apr. 29th/24

Châtelleraube

Châteauroux

	φ	λ	δ	μ
Tours	$47^{\circ}23'8''$ +119	$1^{\circ}38,6$ +193 +102	$15^{\circ}27'$	0,2025
Romancourt	$47^{\circ}21,4$ +107	$0^{\circ}35,5$ -122 -83	$15^{\circ}1'$	0,2023
Châteauroux	$46^{\circ}48'8''$ -56	$0^{\circ}28,5$ -102 -14	$14^{\circ}56'$	0,2049.
Châtelleraube	$46^{\circ}49'0$ -57	$1^{\circ}47'7''$ +238 +162	$15^{\circ}29'$	0,2037

	$\delta' - \delta$	$\mu' - \mu$	Roundings	Δ'	μ	
Tours - Châteauroux	+ 31'	- 0,0024	542	0,0572	-0,00000443	$\Delta = 0,066$
Châtelleraube - Romancourt	+ 28'	+ 0,0014	586	0,0478	+0,00000229	$p = 80$ $\mu = 0,0000059$ $\alpha = 189$

$$\frac{\mu \sin(\alpha - \delta)}{\lambda} - \Delta \cos(p - \delta) + c \sin \delta =$$

$$+0,00000360 - 0,00000521 + 0,0000080,$$

	λ	φ	δ	h	λ	φ
Pare h. manu	-9,4	48,6	15° 35' 8	0,19549	0	0
Travert.	-9,7	41,2	15° 44' 4 + 8,6	0,19560 + 11	+5,7 ³⁸	-7,4 74
Clament	+5,3	48,2	15° 50' 1 + 14,3	0,19575 - 14	+14,798	-0,4

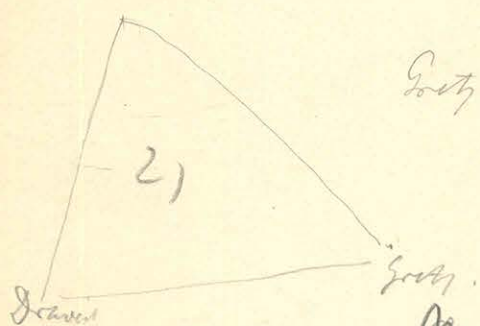
$$\Delta = 0,0000439 \quad \Delta' = 0,151' \quad \beta = 106^\circ \quad c = 0,0000329$$

$$I_h = 0,00000273 \quad \alpha = 212,5$$

$$\frac{L}{h} \sin(\alpha - \delta) - \Delta \cos(\beta - \delta) + c \sin \delta$$

$$-0,00000433 + 0,00000077 + 0,00000879 = +0,00000523$$

Pl. manu.



	λ	φ	δ	h	λ	φ
Travert.	-23,1	44,4	15° 26' 0 - 9,8	19603 + 54	-13,7 ⁹¹	-4,2

$$\Delta' = 0,138' \quad \beta = 111^\circ$$

$$L = 0,0000056 \quad \alpha = 230^\circ$$

UNITAS
INSTITUT OF AKADEMI
KONYVIARA



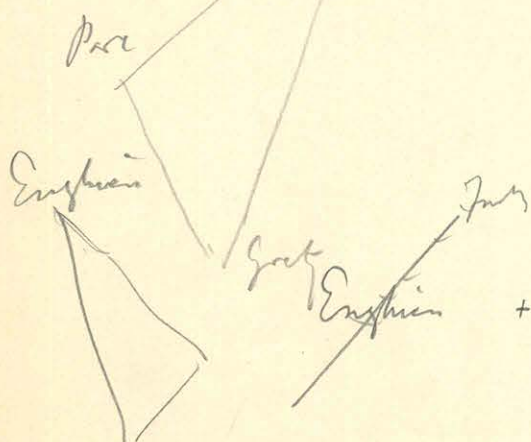
	λ	φ	δ	h	λ	φ
Travert.	-13,2	51,5	29,1	19144	-3,9	+2,9



	λ	φ	δ	h	λ	φ
Travert.	-22,1	61,5	15° 26' 9	0,19464	-12,7 ⁸⁸	+12,9 129

$$\Delta' = 0,108 \quad \beta = 90^\circ$$

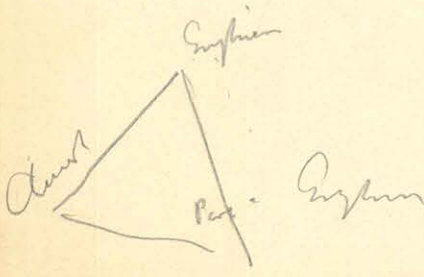
$$L = 0,0000081 \quad \alpha = 194^\circ$$



	λ	φ	δ	h	λ	φ
Travert.	+2,2	58,8	15° 39' 8 + 3,6	0,19470 - 79	+11,6 ⁷⁷	+10,2 ¹⁰²

$$\Delta' = 0,076' \quad \beta = 105^\circ$$

$$L = 0,0000072 \quad \alpha = 189^\circ$$



$$\Delta' = 0,0757 \quad \beta = 116^\circ$$

$$L = 0,0000066 \quad \alpha = 195^\circ$$

114
38

147
294
98

11

151

9345 0,9345
9912 1,9201
9433 0,0144-1 0,1034

1,1553
1,9912
0,1641-1 0,146

0,273

1,0414
1,9201
0,1213-1 0,132

1790-1
4639-4
6429-5 0,0000439

1,1553
1,9912
0,1641-1 0,146

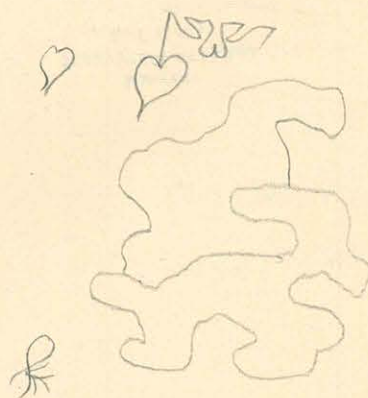
1,1461
1,9912
0,1549-1 0,143

$$\frac{111}{0366} = \frac{600}{x}$$

2819600 / 11100000 / 0,0000288
764
3360
3056
204

0,4262 - 6
0,2900 - 1
0,1462 - 5
0,4900 - 1
0,6362 - 6

23,1 44,4



0,6425 - 5
2419 - 2
0,8844 - 7

0,0000288

0,4594 - 5
0,0578
0,5172 - 5

132

0,4264 - 1
5172 - 5
0,9441 - 6

0,9494
2,1896
0,7604-2=0,0576

1,9294
2,1896
0,7404-1 0,550

116
232
77

1,8976
2,1038
0,7938-1=0,622
124

1
3420
231 137
462 274
154 91
0, 98
127
254
85

0,5563
2,1038
0,5225-2=0,628

$$\sin \varphi' = \sin(\varphi + \delta \varphi)$$

$$\varphi' = \varphi + \delta\varphi$$

$$\sin \varphi' = \sin(\varphi + \delta \varphi)$$

$$\begin{aligned} \cos(\chi \chi') &= \sin \varphi \sin \delta (\sin \varphi \cos \delta \varphi + \cos \varphi \sin \delta \varphi) (\sin \delta \cos \delta \lambda + \cos \delta \sin \delta \lambda) \\ &\quad + \sin \varphi \cos \delta (\sin \varphi \cos \delta \varphi + \cos \varphi \sin \delta \varphi) (\cos \delta \cos \delta \lambda - \sin \delta \sin \delta \lambda) \\ &\quad + \cos \varphi (\cos \varphi \cos \delta \varphi - \sin \varphi \sin \delta \varphi) \end{aligned}$$

$$= \sin \gamma \sin \delta [\sin \gamma \sin \delta \cos \alpha \cos \delta \cos \delta]$$

$$= \sin \varphi \sin \delta \left[\sin \varphi \sin \delta \cos \varphi \cos \delta + \sin \varphi \cos \delta \cos \varphi \sin \delta + \cos \varphi \sin \delta \sin \varphi \cos \delta + \cos \varphi \cos \delta \sin \varphi \sin \delta \right] +$$

$$+ \sin \varphi \cos \delta \left[\sin \varphi \cos \delta \cos \varphi \cos \delta - \cos \varphi \sin \delta \sin \varphi \cos \delta + \cos \varphi \cos \delta \sin \varphi \cos \delta - \cos \varphi \sin \delta \sin \varphi \sin \delta \right]$$

$$+ \cos \varphi (\cos \varphi \cos \delta - \sin \varphi \sin \delta)$$

11

	Δ'	β	H	α
Clamart - Dravuit	0,151'	107°	0,0000027	214°
Dravuit - Gorty.	0,138'	111	56	230°
Gorty - Zimly	0,108'	90°	81	194°
Zimly - Enghien	0,076	105°	72	189°
Enghien - Clamart	0,157	116°	66	195°
	$\Sigma = 0,630$ $\Delta_k = 0,126$	$\Sigma = 529$ $\beta_k = 106°$	0,0000202 $H_k = 0,0000060$	1022 $\alpha_k = 204°$

КОМПЬЮТЕРНО-МАТЕМАТИЧЕСКИЙ
 ЦЕНТР НАУКИ И ТЕХНИКИ
 МОСКОВСКОГО УНИВЕРСИТЕТА

45,0 E

49 15,2

63

75,2

15,3

306

102

168

336

112

195

390

130

128

256

85

308

616

205

1,2304

2,3404

0,8900-2

1,0792

2,2672

0,8120-2

0,6021

2,1847

0,4174-2

0,3010-4

2,3404

0,9606-7

0,2304-3

2,2672

0,9632-6

0,9031-4

2,1847

0,7184-6

0,677

0,8306-1

5866

4172

47

24

4952

6646

0,8306

9590

7896

1,1761

2,2672

0,9089-2

81

264

$$4\alpha_4 + 8\alpha_8 + 12\alpha_{12} = 0,624405$$

$$-4\alpha_4 + 8\alpha_8 - 12\alpha_{12} = -0,722113$$

$$\frac{\alpha_4}{2} + \frac{\alpha_{12}}{6} = 0,082394$$

$$8\alpha_4 + 24\alpha_{12} = 1,346518$$

$$\alpha_4 + 3\alpha_{12} = 0,1683148$$

$$\alpha_4 + \frac{1}{3}\alpha_{12} = 0,1667880$$

$$\frac{8}{3}\alpha_{12} = 0,0015268$$

$$8\alpha_{12} = 0,0045804$$

$$\alpha_{12} = 0,00057255$$

$$\alpha_4 = 0,1665972$$

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

166597
572
166025
165997

$$16\alpha_8 = -0,097708$$

$$\alpha_8 = -0,00610675$$

$$\begin{array}{r} 0,6663888 \\ 68706 \\ \hline 0,6732594 \\ 488540 \\ \hline 6244054 \end{array}$$

$$\begin{array}{r} 10,6622208 \\ 0,9894528 \\ \hline 11,6516736 \\ 31266208 \\ \hline 8,5250432 \\ 1,4209 \end{array}$$

2 2

8256716
 177953
 98294669

1,01241720
 221341
 10563071

3758272
 2707781
 96466153

1,5520601
 1,5450575
 3,0971206
 192147

4,051289
 702
 9,052091
 0,104182

109950
 152727
 263690
 527380

$$d_1 \frac{1}{r_2} + d_8 + \frac{1}{r_2} d_{12}$$

$$1,4142136 \quad \underline{0,7071068} \quad d_8 =$$

0,6663058
 0069528
 0021922
 9,6754506
 510472
 6244034

1665764
 5794
 9,1671558

0,1181970
 61069
 1,120901
 11182

1181970
 1118161
 - 9,0063809
 966
 999
 49
 991

982753

1950903

544925

826325

8469942

1755227

6925
 121261
 1056143
 839417

0,11020944
 97710
 9,0043844

4398 7947

822922

59479

56845

21952

59479

10737

18014

26214

14
 2225618
 301928
 06282221
 261195
 5026001
 06809701

$$1+l = 1,6 \quad (1+l)^2 = 2,56 \quad || \underline{0,6} ||$$

$$1-l = 0,4 \quad (1-l)^2 = 0,16$$

$$\sqrt{5+(1+l)^2} = 2,749545$$

$$\sqrt{5+(1-l)^2} = 2,271563$$

$$\lg(1+l) = 0,204120$$

$$\lg \sqrt{5+(1+l)^2} = 0,439261$$

$$\lg(1-l) = 0,602060 - 1$$

$$\lg \sqrt{5+(1-l)^2} = 0,356325$$

$$\begin{array}{r} 0,201030 \\ 602060 - 1 \\ \hline 0,903090 - 1 \\ 256325 \\ \hline 0,546765 - 1 \end{array}$$

$$19^\circ 24' 4\frac{1}{2}''$$

$$\begin{array}{r} 0,3316126 \\ 69813 \\ 218 \\ \hline \end{array}$$

$$\begin{array}{r} 0,2386157 \\ 8609661 \\ \hline 0,859582 \end{array}$$

$$\begin{array}{r} 0,201030 \\ 204120 \\ \hline 0,505150 \\ 439261 \\ \hline 0,065889 \end{array}$$

$$49^\circ 19' 42''$$

$$\begin{array}{r} 0,8552113 \\ 55269 \\ 2279 \\ \hline \end{array}$$

$$0,8609661$$

$$\begin{array}{r} 0,201030 \\ 0,204120 \\ \hline 0,096910 \\ 439261 \\ \hline 0,657649 - 1 \end{array}$$

$$24^\circ 26' 51''$$

$$\begin{array}{r} 0,4188790 \\ 75651 \\ 2472 \\ \hline \end{array}$$

$$\begin{array}{r} 0,4266894 \\ 0,1422298 \end{array}$$

$$\begin{array}{r} 0,201030 \\ 0,602060 - 1 \\ \hline 0,698970 \\ 256325 \\ \hline 0,242645 \end{array}$$

$$65^\circ 24' 2''$$

$$\begin{array}{r} 1,1244640 \\ 98902 \\ 97 \\ \hline \end{array}$$

$$\begin{array}{r} 1,1443639 \\ 0,3814546 \end{array}$$

$$\begin{array}{r} 0,551450 \\ 0,064458 \\ \hline 0,486992 \\ 0,243496 \end{array}$$

$$\begin{array}{r} 0,816904 \\ 0,619093 \\ \hline 0,197811 \\ 0,098906 \end{array}$$

$$\begin{array}{r} -0,899582 \\ 0,762909 \\ \hline 1,962491 \end{array}$$

$$\begin{array}{r} 1,137838 \\ 0,757670 \\ 0,304577 \\ \hline 2,200085 \\ +1,662491 \\ \hline 0,537594 \end{array}$$

$$\begin{array}{r} 0,630587 \\ 0,676652 \\ \hline 0,953935 - 1 \\ 843496 \\ \hline 0,117431 \end{array}$$

$$\begin{array}{r} 0,514755 \\ 0,572978 \\ \hline 0,940777 - 1 \\ 0,98906 \\ \hline 0,039683 \end{array}$$

MAOYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

hijunk

$$\begin{array}{r} 0,295415 - 1 \\ 262216 \\ \hline 0,657631 - 1 \\ \hline 0,454602 \end{array}$$

$$\begin{array}{r} 0,598604 - 2 \\ 262216 \\ \hline 0,960820 - 2 \\ \hline 0,091272 \end{array}$$

John

Nipipetheto

859

0007968

$$\begin{array}{r} 1,8605296 \\ 597928 \\ \hline 61^{\circ}44'34'' \end{array}$$

$$\begin{array}{r} 1,0646508 \\ 127991 \\ 1648 \\ \hline \end{array}$$

$$\hline 1,0776147$$

12,87 6006

0,1168387

$$6^{\circ}38'51''$$

$$\begin{array}{r} 0,1047198 \\ 110538 \\ 2472 \\ \hline \end{array}$$

0,1160209

$$\frac{1.8}{18.25} = \frac{18}{422002}$$

II-II,

2,2259958

$$\begin{array}{r} 1,000 \\ 8947 \\ \hline \end{array}$$

$$65^{\circ}48'31''$$

$$\begin{array}{r} 1,1044640 \\ 139626 \\ 1503 \\ \hline \end{array}$$

$$\hline 1,1485769$$

13,5000000

0,3333333

$$18^{\circ}26'6''$$

$$\begin{array}{r} 0,3141553 \\ 75651 \\ 291 \\ \hline \end{array}$$

$$\hline 0,3217515$$

$$\frac{1.8}{18.25} = \frac{18}{422002}$$

III-III,

16,509465

0,1817139

$$\begin{array}{r} 4382 \\ 4282 \\ \hline \end{array}$$

$$10^{\circ}17'56''$$

$$\begin{array}{r} 0,1745329 \\ 49451 \\ 2740 \\ \hline \end{array}$$

$$\hline 0,1797520$$

16,5000000

$$\begin{array}{r} 26822 \\ 1,3333333 \\ 5111 \\ \hline \end{array}$$

$$50^{\circ}7'48''$$

$$\begin{array}{r} 0,9250245 \\ 20262 \\ 2246 \\ \hline \end{array}$$

$$\hline 0,9272953$$

$$\frac{1.8}{18.25} = \frac{18}{422002}$$

$$\frac{1.8}{18.25} = \frac{18}{422002}$$

10,077822

0,2976834

$$\begin{array}{r} 4796 \\ 4796 \\ \hline \end{array}$$

$$16^{\circ}34'38''$$

$$\begin{array}{r} 0,2792527 \\ 98902 \\ 1866 \\ \hline \end{array}$$

$$\hline 0,2893295$$

2,25000

4,0000000

$$75^{\circ}57'49''$$

$$\begin{array}{r} 0,3089969 \\ 165806 \\ 2400 \\ \hline \end{array}$$

$$\hline 1,3258175$$

$$\frac{1.8}{18.25} = \frac{18}{422002}$$

$$\frac{1.8}{18.25} = \frac{18}{422002}$$

$$\begin{array}{r} 1325 \quad 7,031129 \\ 7,25 \quad 7,716990 \end{array}$$

1,122216

0,860338

$$\begin{array}{r} 2554 \\ 0,261878 \\ \hline \end{array}$$

0,130939

0,847025

0,887448

$$\begin{array}{r} 0,959577-1 \\ 120939 \\ \hline \end{array}$$

0,090516

0,956725-2

0,318941-1

II-II=0,208421

$$\begin{array}{r} 21,25 \quad 5,031129 \\ 15,25 \quad 5,716990 \end{array}$$

0,227059

1,183270

0,144089

0,072045

1666

0,701579

0,1757167

$$\begin{array}{r} 0,944499-1 \\ 072045 \\ \hline \end{array}$$

0,016544

0,218641-2

0,580857-2

III-III=0,0378937

II-II=0,0380935

$$\begin{array}{r} 11,25 \quad 7,272002 \\ 7,25 \quad 7,500000 \end{array}$$

1,051153

0,966142

0,085011

0,042506

0,861654

0,875061

$$\begin{array}{r} 0,986593-1 \\ 0,042506 \\ \hline \end{array}$$

0,029099

0,463878-2

0,826094-2

0,0670030

$$\begin{array}{r} 11,25 \quad 1,255273 \\ 9,25 \quad 1,630631 \end{array}$$

$$\begin{array}{r} 0,624642 \\ 76^{\circ}38'56'' \\ \hline \end{array}$$

1,2264502

110538

2715

$$\hline 1,2277755$$

0,0670030

$$\begin{array}{r}
 0,84 \\
 - 0,0724727 \\
 \hline
 0,0005519 \\
 0,0068 \quad 0,0125296 \\
 \hline
 7364 \\
 0,00127152 \quad 0,0117932 \\
 \hline
 414779 \\
 0,000218 \quad 0,1265722 \\
 \hline
 0,10664305
 \end{array}$$

$$\begin{array}{r}
 0,00072244 \\
 00000394 \\
 \hline
 10638
 \end{array}$$

$$\begin{array}{l}
 \lambda^6 = 0,000729 \\
 \lambda^{10} = 0,0000005
 \end{array}$$

$$\begin{array}{l}
 0,09 \\
 0,0081 \\
 0,000929
 \end{array}$$

$$0,00021852$$

$$0,047. \quad 0,00003469$$

$$\begin{aligned}
 \alpha_4 + \alpha_4' + \alpha_4'' &= 0,1665546 = 0,1665546 \\
 \alpha_4 + 0,64\alpha_4' + 0,4096\alpha_4'' &= 0,1666298 = 0,1579756 \quad 0,0085790 \\
 \alpha_4 + 0,09\alpha_4' + 0,0081\alpha_4'' &= 0,1692078 = 0,1665300
 \end{aligned}$$

$$0,36\alpha_4' + 0,5904\alpha_4'' = -0,0000752$$

$$0,55\alpha_4' + 0,4015\alpha_4'' = -0,0025780$$

$$\alpha_4' + 1,64\alpha_4'' = -0,00020888$$

$$\alpha_4' + 0,73\alpha_4'' = -0,00468727$$

$$0,91\alpha_4'' = +0,00487839$$

$$0,0000987$$

Jurda

$$\alpha_4'' = 0,00492131$$

$$\alpha_4' = -0,00827983$$

$$\alpha_4 = 0,1699131$$

$$\begin{array}{r}
 827980 \\
 492131 \\
 \hline
 335852 \\
 1665546 \\
 1699131
 \end{array}$$

$$\begin{aligned}
 \lambda^2 &= 0,06 \\
 \lambda^4 &= 0,1296 \\
 \lambda^6 &= 0,046656 \\
 \lambda^{10} &= 0,00604662 \\
 \lambda^{14} &= 0,000780642 \\
 \lambda^{18} &= 0,0001015600
 \end{aligned}$$

$$\begin{array}{r}
 126996 \\
 0,00547984 \\
 0,01276296 \\
 1529218
 \end{array}$$

$$\begin{array}{r}
 0,0611687 \\
 0,0002296 \\
 \hline
 0,0613983 \\
 0,0010721 \\
 \hline
 0,0603252 \\
 0,2413008
 \end{array}$$

MAOYAK
KUDOSAKI OF AKADEMIA
KONYVTARA

$$\begin{array}{r}
 0,2413008 \\
 0022200 \\
 \hline
 0,2390808
 \end{array}$$

$$0,05 \quad 26 \quad 1752 \quad 320$$

$$\begin{array}{r}
 -0,000209 \\
 179 \\
 20
 \end{array}$$

$$\begin{array}{r}
 55/987 \\
 4275 \\
 365 \\
 520
 \end{array}$$

$$\begin{array}{r}
 0,4147720 \\
 0,2926242 \\
 \hline
 0,0221548 \\
 0,0055387
 \end{array}$$

$$\begin{array}{r}
 060880 \\
 059916 \\
 \hline
 000964 \\
 0,000241
 \end{array}$$

Nagyszámú mérési érték egybevetéséből a zérus

$\lambda = 1 \text{ m}$

$$I = 4/01^2 (0,166555$$

$$I = 4/01^2 ((\alpha_4 \lambda^2 + \alpha_4' \lambda + \alpha_4'' \lambda^3) \sin 4\delta - 0,0059479 \lambda^6 \sin 8\delta + 0,00056841 \lambda^{10} \sin 12\delta - 0,00007947 \lambda^{14} \sin 16\delta + 0,000010926 \lambda^{18} \sin 20\delta)$$

$\lambda = 1 \text{ m}$

$$\alpha_4 + \alpha_4' + \alpha_4'' = 0,1665546$$

0,10664205

$\lambda = 0,8 \text{ m}$

$$0,64 \alpha_4 + 0,4096 \alpha_4' + 0,262144 \alpha_4'' = 0,1068262$$

0,10664205

0,10110437

$\lambda = 0,7 \text{ m}$

$$0,09 \alpha_4 + 0,0081 \alpha_4' + 0,000729 \alpha_4'' = 0,0152287$$

0,0149877

$$0,26 \alpha_4' + 0,5904 \alpha_4'' = 0,0085790$$

$$0,55 \alpha_4' + 0,4015 \alpha_4'' = -0,0085544$$

$$\alpha_4' + 1,64 \alpha_4'' = 0,023830555$$

$$\alpha_4' + 0,73 \alpha_4'' = -0,015558454$$

0,0012

$$0,91 \alpha_4'' = 0,039384009$$

$$\alpha_4'' = 0,04327913$$

$$\alpha_4' = -0,04714722$$

$$\alpha_4 = 0,1704227$$

0,0710228

228 206

472 022

0,04

0,002

0,0039899

166 5546

170 5845

0,0068

0,1091485

019 2542

0,1265028

1 19 3344

1 011 674

0,1090705

011 3454

0,1204159

1 19 2115

1 011 044

+ 0,4044176

0,0007324

000 0029

0,4051539

0,0124725

0,3926804

000 0559

392 6245

0,1665546

471472

0,2137018

432791

1704227

$$l = 0,8 \quad 0,2926242$$

$$l = 0,7 \quad 0,0595160$$

$$l = 1 \quad 0,624405$$

br

csúcs

$$\lambda = 0,6 \text{ m} \quad 0,2268647$$

Nagyszámú

ny. 8a.5

Der. 4. 1. 1. 1.

222,2. 1272,8 321,8 120 2,520 120
213,8

$$\cancel{B_1 = \alpha \frac{\partial y}{\partial x} + \gamma \frac{\partial y}{\partial z}}$$

$$B_1 = \alpha$$

$$\frac{\partial y}{\partial x} = X \quad \frac{\partial y}{\partial z} = Z$$

$$B_1 = \alpha X_1 + \gamma Z_1$$

$$B_1 X_1 - B_2 X_1 = \gamma Z_1 X_1 - \gamma Z_2 X_1$$

$$B_2 = \alpha X_2 + \gamma Z_2$$

$$B_2 X_2 - B_3 X_2 = \gamma Z_2 X_2 - \gamma Z_3 X_2$$

$$B_3 = \alpha X_3 + \gamma Z_3$$

$$B_1$$

$$B_1 = R_1$$

$$\frac{B_1 X_1 - B_2 X_1}{B_2 X_2 - B_3 X_2} = \frac{Z_1 X_1 - Z_2 X_1}{Z_2 X_2 - Z_3 X_2}$$

$$B_1 = R_1 \cos \delta_1 - R_2 \sin \delta_1$$

$$\frac{B_1 X_1 - B_2 X_1}{Z_1 X_1 - Z_2 X_1} = \frac{B_2 X_2 - B_3 X_2}{Z_2 X_2 - Z_3 X_2}$$

$$0 = \alpha(X_1 - X_0) + \gamma(Z_1 - Z_0)$$

$$0 = \alpha(X_2 - X_0) + \gamma(Z_2 - Z_0)$$

$$\frac{Z_1 - Z_0}{Z_2 - Z_0} = - \frac{X_1 - X_0}{X_2 - X_0}$$

$$\frac{(B_1 - B_0)(X_2 - X_0) - (B_2 - B_0)(X_1 - X_0)}{(Z_1 - Z_0)(X_2 - X_0) - (Z_2 - Z_0)(X_1 - X_0)}$$

$$\frac{(B_1 - B_0) - (B_2 - B_0) \frac{X_1 - X_0}{X_2 - X_0}}{(Z_1 - Z_0) - (Z_2 - Z_0) \frac{X_1 - X_0}{X_2 - X_0}}$$

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KÖNYVTÁRA

$$= \frac{(B_2 - B_0) - (B_3 - B_0) \frac{X_2 - X_0}{X_3 - X_0}}{(Z_2 - Z_0) - (Z_3 - Z_0) \frac{X_2 - X_0}{X_3 - X_0}}$$

27,25

27

9,25

40,9

9

27,5
1.

0,1

25

2,25

0,95

1

0 0,5

$$X_{n+1} = y \sin \alpha \pm \alpha \sin \alpha h + \beta \sin \alpha h + \gamma \sin \alpha h$$

3+

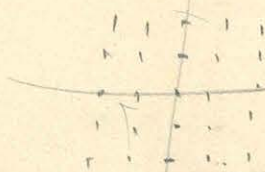
2 2,01

2,1

$$h_1 = \alpha \frac{\partial y}{\partial x_1} + \gamma \frac{\partial y}{\partial x_2}$$

$$h_2 = \alpha \frac{\partial y}{\partial x_2} + \gamma \frac{\partial y}{\partial x_1}$$

54
24
11



MAOYAK
TIBOYAKO AKADEM
KONYAKA



$$R_1 \cos \theta_1 = \alpha C_1 \cos \theta_1 + \gamma D_1 \cos \mu_1$$

~~R₂ cos~~

$$R_1 \sin \theta_1 = -\alpha C_1 \sin \theta_1 + \gamma D_1 \sin \mu_1$$



$$R_1 \cos \theta_1 + R_1 \sin \theta_1 = \gamma (D_1 \cos \mu_1 + D_1 \sin \mu_1)$$

$$R_2 \cos \theta_2 + R_2 \sin \theta_2$$

X-Y

26.5 m for the 100 m run.
24.0 - 26.0 cm land.
126.7 m 321.8
Bridgman

10 m
38
100.00

$$\cos^4 \varphi + 4 \cos^3 \varphi \sin \varphi + 6 \cos^2 \varphi \sin^2 \varphi + 4 \cos \varphi \sin^3 \varphi + \sin^4 \varphi$$

$$2 \cos^4 \varphi \quad 8 \cos^3 \varphi \sin \varphi + 8 \sin^3 \varphi \cos \varphi$$

$$8 \cos^2 \varphi \sin^2 \varphi + 8 \sin^2 \varphi \cos^2 \varphi$$

$$8 \sin^2 \varphi$$

$$\cos^6 \varphi + 6 \cos^5 \varphi \sin \varphi + 15 \cos^4 \varphi \sin^2 \varphi + 20 \cos^3 \varphi \sin^3 \varphi + 15 \cos^2 \varphi \sin^4 \varphi + 6 \cos \varphi \sin^5 \varphi + \sin^6 \varphi$$

$$12 \cos^5 \varphi \sin \varphi + 40 \cos^3 \varphi \sin^3 \varphi + 12 \sin^5 \varphi \cos \varphi$$

$$(\sin^2 \varphi + \cos^2 \varphi)^2 = \sin^4 \varphi + \cos^4 \varphi + 2 \sin^2 \varphi \cos^2 \varphi$$

$$12 \cos \varphi \sin \varphi + 16 \cos^3 \varphi \sin^3 \varphi$$

$$\cos^n \varphi + n \cos^{n-1} \varphi \sin \varphi + \frac{n(n-1)}{1 \cdot 2} \cos^{n-2} \varphi \sin^2 \varphi + \frac{n(n-1)(n-2)}{1 \cdot 2 \cdot 3} \cos^{n-3} \varphi \sin^3 \varphi + \dots + \frac{n(n-1)(n-2) \dots 2}{1 \cdot 2 \cdot \dots (n-1)} \cos \varphi \sin^{n-1} \varphi + \sin^n \varphi$$

$$\sin^2 \varphi \left\{ n \cos^{n-2} \varphi + \frac{n(n-1)(n-2)}{1 \cdot 2 \cdot 3} \cos^{n-4} \varphi \sin^2 \varphi + \frac{n(n-1)(n-2)(n-3)(n-4)}{1 \cdot 2 \cdot 3 \cdot 4 \cdot 5} \cos^{n-6} \varphi \sin^4 \varphi + \dots \right.$$

$$\frac{3}{4} K^2$$

MAGYAR
ADOMÁS-ÉRTÉK AKADÉMIA
KÖNYVTÁRA

$$+ n \sin^{n-2} \varphi \}$$

$$\frac{b}{c} = \frac{\sqrt{a^2 + b^2} (c + \sqrt{a^2 + b^2})}{a (c + \sqrt{a^2 + b^2} + c)}$$

$$c(s+c)$$

$$\frac{b}{a^2 + b^2} = \frac{b \cdot c}{s(c+s)}$$

$$b \frac{s^2 + sc - a^2 - b^2}{(a^2 + b^2)(s(c+s))}$$

$$\begin{array}{r} 0,571256 \\ 11517129 \\ \hline 2,092285 \end{array}$$

$$\begin{array}{r} 120,676 \\ 222,755 \\ \hline 343,431 \end{array}$$

$$\frac{b \cdot c}{s(a^2 + b^2)}$$

$$\begin{array}{r} 2,509616 \\ 0,460384-3 \end{array}$$

$$\begin{array}{r} 2,75970 \\ 222,755 \\ \hline 226,510 \end{array}$$

$$\begin{array}{r} 2,355087 \\ 11517129 \\ \hline 3,873215 \end{array}$$

$$\begin{array}{r} 0,0001342100 \\ 0,0000121777 \\ \hline 0,0001773827 \end{array}$$

$$1,604446$$

МАШИННОЕ ПИСЬМО
ИЗДАТЕЛЬСТВО АКАДЕМИИ
НАУК СССР

$$\begin{array}{r} 779,022 \\ 222,755 \\ \hline 1001,777 \end{array}$$

$$\begin{array}{r} 3,000773 \\ 1,604446 \\ \hline 4,605219 \end{array}$$

$$0,304781-5$$

$$\begin{array}{r} 1,425716 \\ 348,140 \\ \hline 1,077576 \end{array}$$

$$\begin{array}{r} 0,248915-4 \\ 1,170914 \\ 1,466126 \\ \hline 0,888955-2 \end{array}$$

$$0,0774282$$

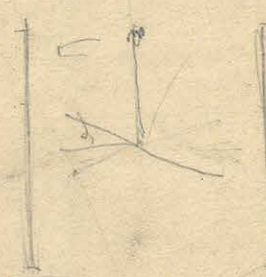
$$0,0829804$$

$$0,1604186$$

$$0,032450$$

$$1,113475$$

$$0,948175-2$$



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$$\left(\frac{c^2}{a^2} - \frac{b^2}{a^2} \right) \frac{1}{2} + \frac{1}{2} \left(\frac{c^2}{a^2} + \frac{b^2}{a^2} \right) c + \dots$$

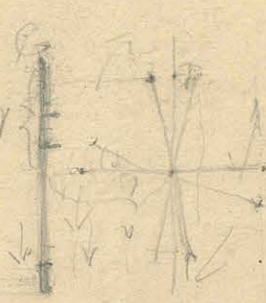
$$\left(\frac{c^2}{a^2} - \frac{b^2}{a^2} \right) \frac{1}{2} + \frac{1}{2} \left(\frac{c^2}{a^2} + \frac{b^2}{a^2} \right) c - \dots$$

$$\left(\frac{c^2}{a^2} - \frac{b^2}{a^2} \right) \frac{1}{2} + \frac{1}{2} \left(\frac{c^2}{a^2} + \frac{b^2}{a^2} \right) c$$



$$\left(\frac{c^2}{a^2} - \frac{b^2}{a^2} \right) \frac{1}{2} + \frac{1}{2} \left(\frac{c^2}{a^2} + \frac{b^2}{a^2} \right) c$$

$$\left(\frac{c^2}{a^2} - \frac{b^2}{a^2} \right) \frac{1}{2} - \frac{1}{2} \left(\frac{c^2}{a^2} + \frac{b^2}{a^2} \right) c$$



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X

$$\beta(x - \gamma \lambda_2) - \alpha(y - \gamma \lambda_2) = (\beta^2 - \alpha^2) \lambda_2 + \alpha \beta (\lambda_x - \lambda_y)$$

$$\sin 2\alpha (X - \gamma \lambda_2) - \cos 2\alpha (Y - \gamma \lambda_2) = \frac{\cos 2\alpha}{2} \lambda_y + \frac{\sin 2\alpha}{2} (\lambda_x - \lambda_y)$$

$$\frac{(X - \gamma \lambda_2)}{\cos \alpha} - \frac{(Y - \gamma \lambda_2)}{\sin \alpha} = -\frac{2}{\sin 2\alpha} \lambda_y + (\lambda_x - \lambda_y)$$

$$(X - X')_p - (Y - Y')_p$$

$$2\alpha \gamma \lambda_x \lambda_y - 4\alpha \gamma \lambda_x \lambda_y$$

$$B_1 = 0 \quad \lambda_1 = 0 \quad B_2 = 0$$

$$X' = \alpha \lambda_x + \gamma \lambda_z$$

$$Z = \alpha \lambda_z - \gamma \lambda_x$$

$$T^2 = X^2 + Z^2 = (\alpha^2 + \gamma^2)(\lambda_x^2 + \lambda_z^2) + 2\alpha\gamma \lambda_x \lambda_z$$

$$\begin{cases} \alpha X + \gamma Z = (\alpha^2 + \gamma^2) \lambda_x \\ \gamma X + \alpha Z = (\alpha^2 + \gamma^2) \lambda_z \end{cases}$$

$$15\lambda_x^2 + 5\lambda_z^2 - 4\lambda_x \lambda_z$$

$$\lambda_z = 0 \quad \gamma X = -\alpha Z$$

$$\frac{\lambda}{z} = \frac{\gamma}{\alpha}$$

$$\frac{(3-4)}{L} = \frac{L}{(1-4)+0}$$

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KONVICTÁRIA

$$\frac{X}{z} = -\frac{\gamma}{\alpha}$$

$$\frac{\partial^2 V}{\partial x^2}$$

~~X~~

$$\lambda_x = \frac{16}{r^5} - \frac{3x^2}{r^5}$$

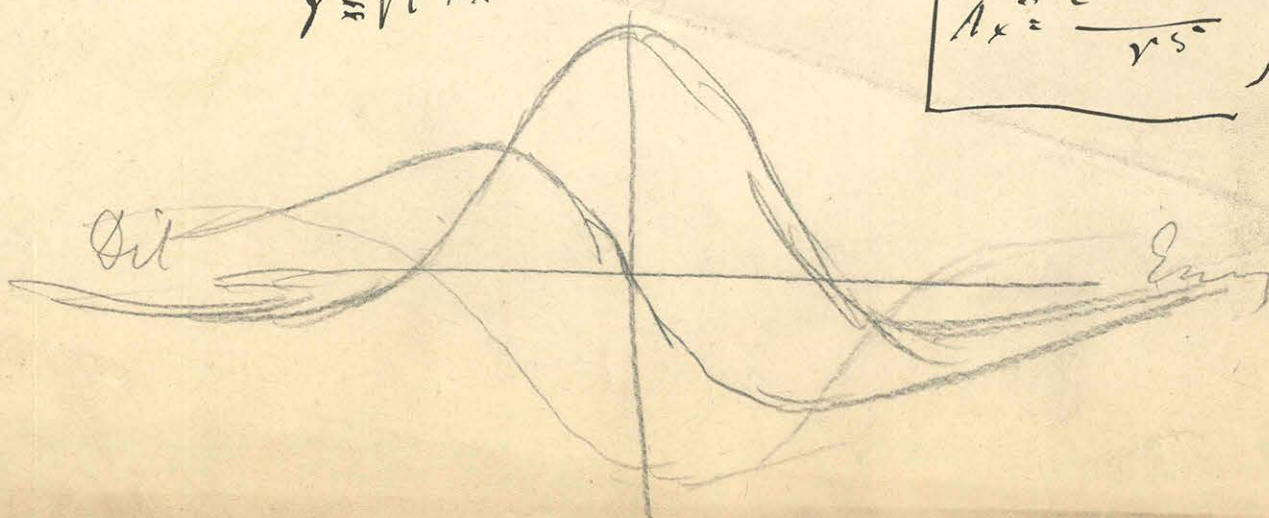
$$(X - X') - 2(Z - Z') = c(\lambda_x - \lambda_x')$$

$$\left[\frac{\partial^2 V}{\partial x \partial z} = \frac{3xZ}{r^5} \right]$$

$$r = \sqrt{c^2 + x^2}$$

$$\lambda_x = \frac{c^2 + x^2 - 3x^2}{r^5}$$

$$\left[\lambda_x = \frac{c^2 - 2x^2}{r^5} \right]$$



	φ	λ	δ	h
Tours	$47^{\circ}23,8'$	$1^{\circ}38'6''$	$15^{\circ}27'$	$0,2,025$
Blvris	$47^{\circ}35'3''$	$1^{\circ}0'0''$	$15^{\circ}15'$	$0,2,011$
Chateaucornet	$46^{\circ}49'$	$1^{\circ}47'7''$	$15^{\circ}29'$	$0,2,027$
La Fleche	$47^{\circ}42,1'$	$2^{\circ}24,8'$	$15^{\circ}54'$	$0,2,000$

	φ	λ	δ	Δ	$h-h$	h
Tours	0	0				
Blvris	$+11,5 + 115$	$-38,6 - 26$	-12	$\frac{1}{2811} - 0,0422$	$-0,0014$	$-0,00000492$
Chateaucornet	$-34,8 = 348$	$+9,1 + 62$	$+2$	$\frac{1}{2} + 0,0057$	$+0,0012$	$+0,00000342$
La Fleche	$+18,3 + 183$	$+46,2 + 313$	$+27$	$\frac{1}{8} + 0,0742$	$-0,0025$	$-0,00000687$

Altitude	geogr. lulluq	geogr. homing	Height of Vais. meters.	Height of Vais. m.	Inclination	H-H, Cgs lens	y-y, Cgs.	Z-Z.	Com side of homing
	φ	λ	Elevation	Altitude - J. J. J.					
I	46° 47' 2	35° 19' 1	-59,07			0			
III	46° 48' 3	35° 18' 5	-58,13			+0,000105			+0
* VII	46° 47' 3	35° 19' 6	-59,27	-1'6		-0,000025			0,0
XI	46° 46' 6	35° 17' 3	-57,80	+3'5		+0,000150			-0
XIII	46° 46' 2	35° 16' 1	-57,41	+5'3		+0,000205			-0
XV	46° 45' 7	35° 14' 6	-57,54	+6'7		+0,000190			-0
XVI	46° 45' 2	35° 13' 3	-58,21	+7'7		+0,000105			-0
* XVII	46° 44' 3	35° 11' 8	-57,68	+11'0		+0,000175			-0
XX	46° 43' 3	35° 9' 7	-57,91	+13'2		+0,000145			-0
XXIII	46° 42' 7	35° 7' 2	-57,03	17'0		+0,000255			-0
+ XXVII Parton	46° 42' 4	35° 4' 7	-60,16			+0,000125			-0

Gravitacijska sila u toku 1/2 sata
 0,000074
 0,000012

Anomalijska
 1/2 sata (1) i 1/2 sata (2)

0

0

+0,000086

+0,000191

0,000000

+0,3

-0,000025

-1'3

-0,000025

-0,9

+0,000025

+2'6

-0,000038

-1,4

+0,000167

+3'9

-0,000056

-2,1

+0,000134

+4,6

-0,000076

-2,6

+0,000029

+5,1

-0,000127

-3,3

+0,000048

+7,7

-0,000175

-4,2

-0,000030

+9,0

-0,000189

-5,3

+0,000066

+11,7

-0,000182

-0,000037

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2 - 2

$$-20,6 = a_1 \sin 19,5^\circ + a_2 \sin 39^\circ + a_3 \sin 58,5^\circ + b_1 (\cos 19,5^\circ - \cos 58,5^\circ)$$

$$-18,3 = a_1 \sin 79,5^\circ + a_2 \sin 21^\circ - a_3 \sin 58,5^\circ + b_1 (\cos 79,5^\circ + \cos 58,5^\circ)$$

$$0 = a_1 \sin 82,5^\circ - a_2 \sin 15^\circ - a_3 \sin 67,5^\circ - b_1 (\cos 67,5^\circ + \cos 82,5^\circ)$$

$$0 = -a_1 \sin 85,5^\circ + a_2 \sin 9^\circ + a_3 \sin 76,5^\circ - b_1 (\cos 85,5^\circ + \cos 76,5^\circ)$$

$$-20600 = 3338 a_1 + 6293 a_2 + 8526 a_3 + 4201 b_1$$

$$-183000 = 9833 a_1 + 3584 a_2 - 8526 a_3 + 7047 b_1$$

$$0 = 9914 a_1 - 2588 a_2 - 9239 a_3 - 5132 b_1$$

$$0 = -9969 a_1 + 1564 a_2 + 9724 a_3 - 3119 b_1$$

$$-389000 = 13171 a_1 + 9877 a_2 + 11248 b_1$$

$$-169074 = 632 a_1 + 5518 a_2 + 90886 b_1$$

$$0 = 20403 a_1 - 4288 a_2 - 2282 b_1$$

$$-214804$$

$$+1557776 = 12518 a_1 + 4176 a_2$$

$$-169074 = 97330 a_1 - 14937 a_2$$

$$\begin{cases} a_1 = +2,2289 \\ a_2 = +27,8297 \\ a_3 = -11,0521 \\ b_1 = -28,6255 \end{cases}$$

$$\begin{cases} a_1 = -6,5839 \\ a_2 = -31,5818 \\ a_3 = -1,5167 \\ b_1 = 0,4785 \end{cases}$$

$$\begin{aligned}
 -389000 &= 13171 a_1 + 9877 a_2 + 11248 b_1 \\
 -183000 &= 684 a_1 + 5973 a_2 + 11781 b_1 \\
 0 &= 465 a_1 - 1160 a_2 - 8520 b_1
 \end{aligned}$$

$$\begin{aligned}
 -224425 &= 13111 a_1 + 4372 a_2 \\
 -183000 &= 1327 a_1 + 4379 a_2
 \end{aligned}$$

$$\begin{aligned}
 a_1 &= -3,5404 \\
 a_2 &= -40,7175 \\
 a_3 &= +4,6255 \\
 b_1 &= +5,3505
 \end{aligned}
 \left. \vphantom{\begin{aligned} a_1 \\ a_2 \\ a_3 \\ b_1 \end{aligned}} \right\} \text{fo}$$

~~28~~ 8 amr. $\varphi = 139^\circ 5'$

$$X = a_1 \sin 40^\circ 5' - a_2 \sin 81 + a_3 \sin 58^\circ 5' + b_1 (-\cos 40^\circ 5' - \cos 58^\circ 5')$$

$$X = a_1 0,6494 - a_2 0,9877 + a_3 0,8526 + b_1 1,2829$$

8 ötürä formula wçr $X = +36,0$

8 ötürä formula wçr $\varphi = 180 + 34^\circ 5'$

$$X = a_1$$

$$\begin{aligned} \vartheta_1 + \vartheta_2 + \vartheta_3 &= 0 \\ -\vartheta_1 + \vartheta_2 - \vartheta_3 &= 0 \end{aligned}$$

$$x = Cx$$

$$\begin{aligned} \vartheta_2 &= 0 \\ \vartheta_1 + \vartheta_3 &= 0 \end{aligned}$$

$$a \sin \varphi + b \cos \varphi +$$